

JVC

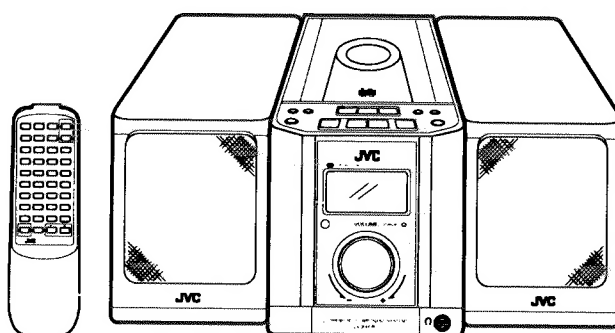
SERVICE MANUAL

ULTRA MICRO COMPONENT SYSTEM

UX-2000RGD B/E/EN/G

COMPACT
disc
DIGITAL AUDIO

R·D·S EON




Area Suffix

B	U.K.
E	Continental Europe
EN	North Europe
G	Germany

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1. Safety Precautions

1. The design this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacture's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety - related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of service manual. Electrical components having such features are identified by () on the schematic diagram and parts list in the service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of service manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.

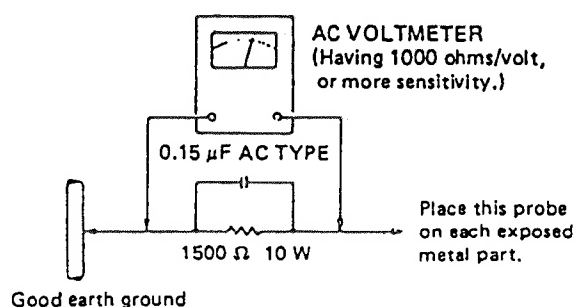
5. Leakage current check (Electrical shock hazard testing)

After re - assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. using a "Leakage current tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC(r.m.s.)

• Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 ohms 10W resistor paralleled by a 0.15 μ F AC type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured



Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

CAUTION

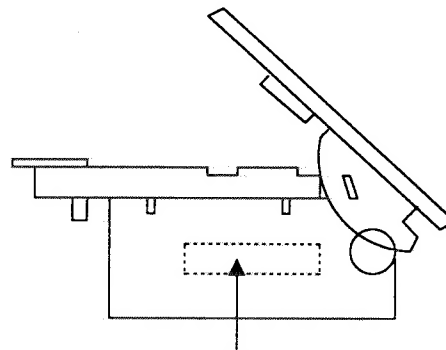
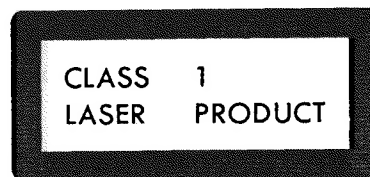
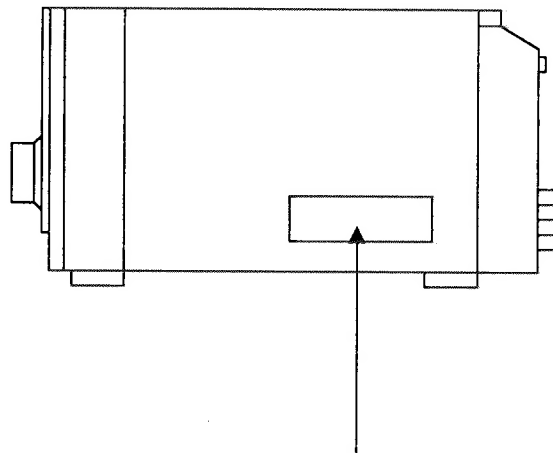
Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.

2. Safety Precaution about UX- 2000RGD

IMPORTANT FOR LASER PRODUCTS PRECAUTIONS

1. CLASS 1 LASER PRODUCT
2. **DANGER:** Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION:** Do not open the rear cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
4. **CAUTION:** The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent the emission of radiation when the CD holder is open. It is dangerous to defeat the safety switches.
5. **CAUTION:** Use of controls for adjustments and the performance of procedures other than those specified herein may result in exposure to hazardous radiation.
6. **CAUTION:** The laser is able to function, if safety switches out of function. The laser light is invisible, avoid exposure, do not disassemble the laser unit, but replace the complete unit.

IDENTIFICATION LABEL AND CERTIFICATION LABEL



DANGER: Invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)	ADVARSEL: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgåudsættelse for stråling. (d)	WARNING: Osynlig laserstråling når denna del är öppnad och spärren är urkopplad. Betrakta ej strålen. (s)	VARO: Avattaessa ja suojakuitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen. (f)
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IMPORTANT (In the U. K.)

Mains Supply (AC 230 V~, 50 Hz only)

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

BE SURE to replace the fuse only with an identical approved type, as originally fitted, and to replace the fuse cover.

If nonetheless the mains plug is cut off ensure to remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

IMPORTANT

DO NOT make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code:

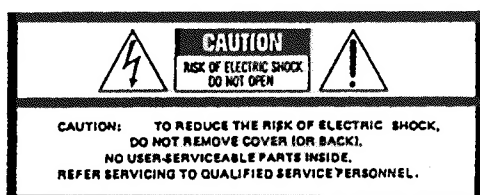


As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IF IN DOUBT - CONSULT A COMPETENT ELECTRICIAN.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



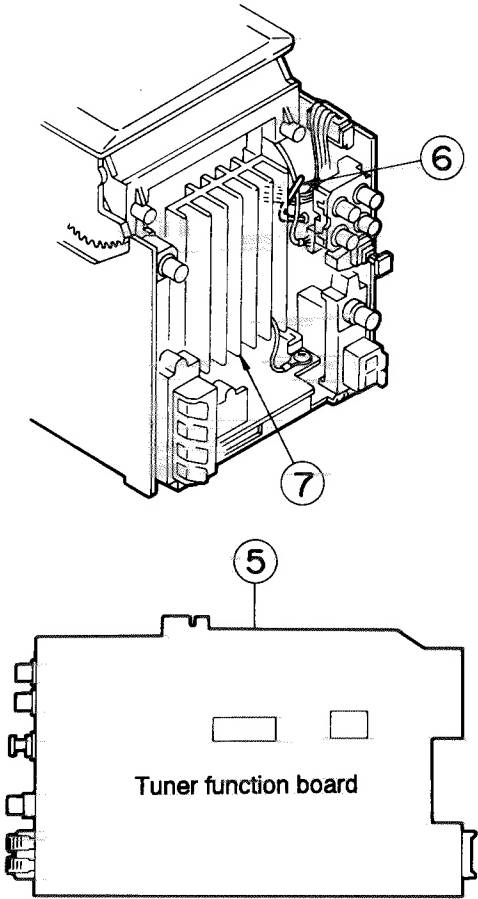
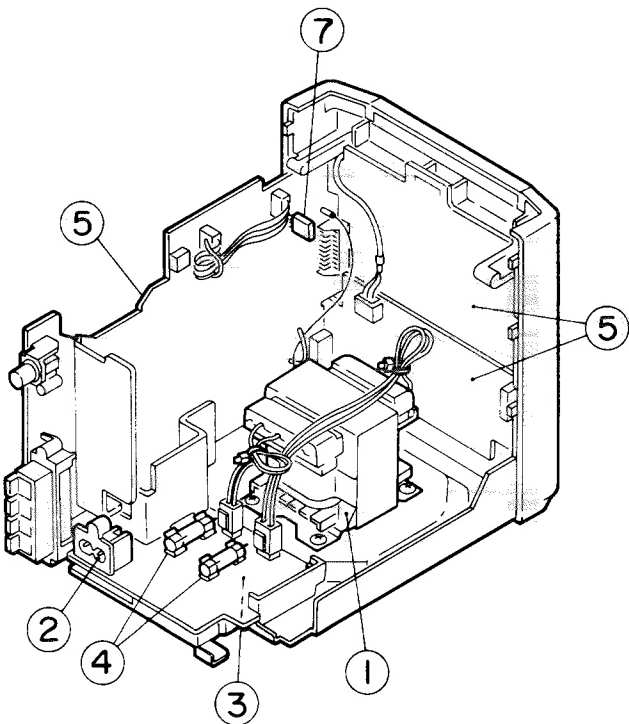
The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

■ Important management points regarding safety(Item demanding special safety precautions)

- 1. Power transformer marking : VTP66J2 – 12K
The torque of the screw driver for the power transformor must be controlled.
- 2. Concerning the AC socket, the next marking must be confirmed and to avoid print circuit board pattern damage.
The AC socket must not float from print circuit board.
•Marking HJC027
- 3. Concerning the primary terminal and the adjacent secondary terminal on the print circuit board to provide proper creeping and spatial distance, solder must not protrude from soldering round.
- 4. Before installation confirm the fuse capacity indication, Ⓢ or Ⓢ mark on the holder.

REF.NO	Capacity and mark	Indication on P.C.board	Version
F901	T400mA	T400mA	B/E/EN/G
F902	T6.3A	T6.3A	B/E/EN/G

- 5.The parts on the pattern side of the printed circuit board must be fixed with spacers or bond.
- 6. Wires must be clamped or secured at the locations shown in the figure so that the wire do not touch to live parts, moving part , hot part, or sharp edges.
- 7. Following parts are controlled as the heated parts. confirm that the flammable parts are lifted up the parts in () must be controled.
• IC901, IC31, Q9201,R1001, R1002, Heat sink, IC holder(For IC901, IC31), IC Holder +Diode



JVC



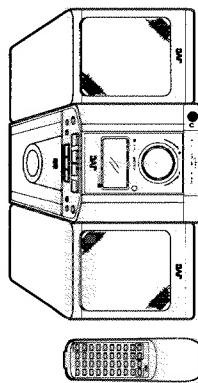
ULTRA MICRO COMPONENT SYSTEM

SISTEMA DE ULTRA MICROCOMPONENTES

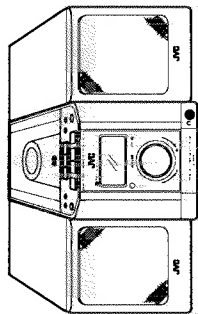
SISTEMA AD ULTRA MICROCOMPONENTI

UX-2000R E

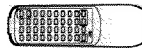
UX-1500R E



UX-2000R



UX-1500R

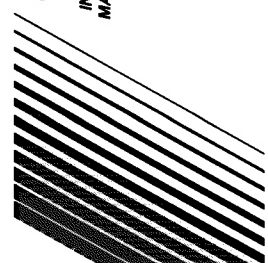


COMPACT
disc
DIGITAL AUDIO

CD R-D-S EON

INSTRUCTIONS

ISTRUZIONI
MANUALE DI ISTRUZIONI



(No.10004) 5

3. Instructions

ENGLISH

Thank you for purchasing this JVC product. Please read these instructions carefully before starting operation to be sure to obtain optimum performance and a longer service life from the unit.



ESPAÑOL

Le agradecemos la adquisición de este producto de JVC. Por favor lea detenidamente las instrucciones antes de comenzar la operación para obtener de esta unidad un rendimiento óptimo y una vida de servicio más larga.

ITALIANO

Grazie per avere acquistato questo prodotto JVC. Si prega di leggere queste istruzioni con attenzione prima dell'uso per essere certi di ottenere prestazioni ottimali ed una lunga durata dell'unità.

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WARNING:
TO REDUCE THE RISK OF FIRE OR
ELECTRIC SHOCK, DO NOT EXPOSE
THIS APPLIANCE TO RAIN OR
MOISTURE.



IMPORTANT FOR LASER PRODUCTS

- PRECAUTIONS**
1. CLASS 1 LASER PRODUCT
 2. DANGER: Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
 3. CAUTION: Do not open the rear cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
 4. CAUTION: The CD player uses invisible laser radiation and is equipped with safety features to prevent exposure to laser radiation when the CD holder or CD tray is open. It is dangerous to defeat the safety switches.
 5. CAUTION: Use of controls for adjustments and the performance of procedures other than those specified herein may result in exposure to hazardous radiation.

ADVERTENCIA:
PARA REDUCIR EL RIESGO DE
INCENDIO O DE CHOQUES
ELECTRICOS, NO EXPONGA ESTE
APARATO A LA LLUVIA O A LA
HUMEDAD.



IMPORTANTE PARA PRODUCTOS LASER

- PRECAUCIONES**
1. PRODUCTO LASER CLASE 1
 2. PELIGRO: Radiación laser invisible cuando se abra, falle o se desactive el encerramiento. Evite la exposición directa al rayo.
 3. PRECAUCIÓN: No abra la cubierta trasera. Dentro de la unidad no hay componentes que el usuario pueda reparar; deje toda reparación al personal de servicio cualificado.
 4. PRECAUCIÓN: El reproductor de CD utiliza radiación laser invisible y está equipado con interruptores de seguridad para evitar la emisión de radiación cuando se abre el portadisco de CD o compartimento del CD. Es peligroso desactivar los interruptores de seguridad.
 5. PRECAUCIÓN: La utilización de los controles de ajuste y de procedimientos que no estén especificados aquí, puede resultar en exposición a radiación peligrosa.

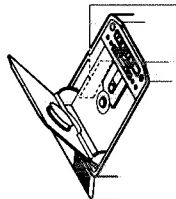
AVVERTENZA:
NON ESPORRE L'APPARECCHIO A
PIOGGIA O UMIDITA' ONDE RIDURRE I
RISCHI DI FIAMME O SCOSSE
ELETTRICHE.

Per l'Italia:
"Si dichiara che il questo prodotto di marca JVC è conforme alle prescrizioni del Decreto Ministeriale n.548 del 28/08/95 pubblicato sulla Gazzetta Ufficiale della Repubblica Italiana n.301 del 28/12/95."

IMPORTANTI PRECAUZIONI PER PRODOTTI LASER

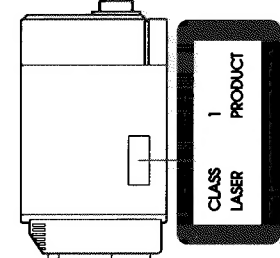
- PRECAUZIONI**
1. PRODOTTO LASER DI CLASSE 1
 2. PERICOLO: Quando l'apparecchio è aperto ed i dispositivi di sicurezza non funzionano o sono stati disattivati, vengono prodotte invisibili radiazioni laser. Evitare l'esposizione diretta al raggio.
 3. ATTENZIONE: Non aprire la copertura posteriore. All'interno dell'unità non vi sono parti che possono interessare l'utente; fare eseguire qualsiasi intervento a personale di servizio qualificato.
 4. ATTENZIONE: Il lettore CD utilizza radiazioni laser invisibili ed è fornito di interruttori di sicurezza per evitare l'emissione di tali radiazioni quando il piatto del CD è aperto. Non escludere tali interruttori di sicurezza in quanto ciò è pericoloso.
 5. ATTENZIONE: L'uso di comandi e procedure diversi da quanto specificato possono risultare nell'esposizione a radiazioni pericolose.

REPRODUCTION OF LABELS AND THEIR LOCATION



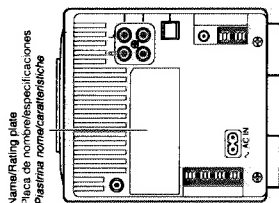
WARNING: Read the instruction manual before using the device. Failure to follow the instructions may result in damage to the device or injury to the user.	ATTENTION: Lire attentivement le manuel d'instructions avant d'utiliser l'appareil. Le non-respect des instructions peut entraîner des dommages à l'appareil ou des blessures à l'utilisateur.	AVVERTENZA: Leggere attentivamente il manuale d'istruzioni prima di utilizzare l'apparelio. Il mancato rispetto delle istruzioni può causare danni all'apparelio o lesioni all'utente.
1. Do not use the device if the power cord is damaged or if the power cord is not properly plugged into the power outlet.	1. Ne pas utiliser l'appareil si le cordon d'alimentation est endommagé ou si le cordon n'est pas correctement branché sur la prise.	1. Non utilizzare l'apparelio se il cavo di alimentazione è danneggiato o se il cavo non è correttamente inserito nella presa.

REPRODUCCION DE ETIQUETAS Y SU UBICACION



Obs: Appareil inehâlier laser-komponent av höga laserklass enligt klass 1.

ETICHETTE E LORO POSIZIONE



FEATURES

- Ultra micro component system
- Radio data interface (RDI)
- Active Hyper-Bass PRO circuit for low-frequency sound reproduction
- One-touch operation (COMPU PLAY)
- 40-key remote control unit
- Multi-function CD player
- Programmed play of up to 20 tracks
- Repeat Play
- Random Play
- 2-band digital synthesizer tuner with 45-station preset capability
- Auto preset tuning
- Seek/manual tuning
- Timer/Click function
- Sleep timer can be set for up to 120 minutes
- Dimmer button
- Optical digital output
- Subwoofer output

CARACTERISTICAS

- Sistema de ultra microcomponentes
- Interfaz de datos por radio (RDI)
- Circuito Active Hyper-Bass PRO para reproducción sonora de baja frecuencia
- Operación de un solo toque (COMPU PLAY)
- Unidad de control remoto con 40 teclas
- Reproductor de CD con funciones múltiples
- Reproducción programada hasta 20 pistas
- Repetición de reproducción
- Reproducción aleatoria
- Sintonizador sintetizador digital de 2 bandas con capacidad para predefinición de 45 estaciones (45 MHz (MWLW))
- Sintonización automática
- Sintonización programada manual
- Sintonización programada automática
- Función de temporizador/click
- Activación/desactivación del temporizador con función de volumen preajustado
- El temporizador desactivado puede ser programado hasta un máximo de 120 minutos
- Botón atenuador
- Salida digital óptica
- Salida de altavoz de subgraves

CARATTERISTICHE

- Sistema ad ultra microcomponenti
- Interfaccia dati radio (RDI)
- Circuito Active Hyper-Bass PRO di nuova concezione per la riproduzione della basse frequenze
- Funzionamento ad un solo tocco (COMPU PLAY)
- Unità di telecomando a 40 tasti
- Lettore CD multifunzione
- Riproduzione programmata di fino a 20 brani
- Riproduzione casuale
- Sintonizzatore digitalizzato di 2 bande con capacità per preimpostazione di 45 stazioni (30 FM e 15 MW (MWLW))
- Sintonizzazione con ricerca manuale
- Sintonizzazione con preselezione automatica
- Funzione timer/click
- Funzione di attivazione e disattivazione via timer con preimpostazione del volume
- Il timer per lo spegnimento automatico può essere impostato per fino a 120 minuti
- Tasto illuminazione
- Tasto uscita ottica
- Uscita subwoofer

SAFETY PRECAUTIONS



Prevention of Electric Shocks, Fire Hazards and Damage

1. STANDBY: A very small current will flow. To save power and for safety when not using the unit for an extended period of time, disconnect the power cord from the household AC outlet.
2. Do not handle the power cord with wet hands. Grasp and pull the plug, not the power cord.
3. When unplugging from the wall outlet, always grasp and pull the plug, not the power cord.
4. Do not connect the power cord to a power source, or contact failure affects the cord.
5. Do not bend the cord severely, or pull or twist it.

PRECAUCIONES DE SEGURIDAD

Prevenición de choques eléctricos, peligro de incendio y daños

1. Aunque el botón de alimentación POWER, esté colocado en espera STANDBY, fluye una pequeña corriente eléctrica. Para ahorrar energía y por seguridad cuando no utiliza esta unidad durante un largo periodo, desconecte el cable de alimentación de la toma corriente de CA.
2. No manipule el cordón eléctrico con las manos mojadas.
3. Cuando lo desconecte del tomacorriente de la pared, sujételo siempre por el enchufe, nunca por el cordón.
4. En caso de que el cordón sea afectado por daños, desconexión, o falso contacto, consulte a su agente más cercano.
5. No conecte el cable a una fuente de energía, o el contacto fallará y afectará el cable.

PRECAUZIONI PER LA SICUREZZA

Prevenzione di scosse elettriche, fiamme e danni

1. Anche quando l'interruttore POWER si trova sulla posizione STANDBY, una piccola quantità di corrente continua a fluire. Per risparmiare energia e per ragioni di sicurezza, scollegare il cavo dell'alimentazione dalla presa di corrente CA quando non si utilizza l'unità per un periodo prolungato.
2. Non maneggiare il cavo di alimentazione con le mani bagnate.
3. Per scollegarsi dalla presa di rete, afferrare sempre la spina e non il cavo dell'alimentazione.
4. Consultare il rivenditore più vicino quando il cavo è danneggiato, scollegato o con contatti scaldati.
5. Non collegare eccessivamente il cavo, non tirarlo e non torcerlo.

6. Do not modify the power cord in any manner.
7. To avoid accidents, do not remove screws to disassemble the unit and do not touch anything inside the unit.
8. Do not insert any metallic objects into the unit.
9. Do not plug the power cord when there is a possibility of lightning.
10. If water gets inside the unit, unplug the power cord from the outlet and consult your dealer.
11. Do not block the unit's ventilation holes that allow heat to escape.
12. Since this unit uses a motor-driven CD holder or CD tray, make sure that your finger or other object does not obstruct holder or tray movement.

POWER button

When the power cord is connected to a household AC outlet, the POWER indicator lights inside the unit. When the POWER button is pressed, the power indicator goes out and the display window lights.

When this unit is plugged into an AC outlet, it consumes a small current to operate the memory of the microprocessor. When the POWER button is set to STANDBY.

6. No modifique el cordón eléctrico de ninguna manera.
7. Para evitar accidentes, no extraiga los tornillos para desarmar la unidad y no toque nada dentro de la misma.
8. No inserte ningún objeto metálico dentro de la unidad.
9. Desenchufe el cordón eléctrico cuando haya posibilidad de caída de rayos.
10. Si se introduce agua dentro de la unidad, desenchufe el cordón eléctrico del tomacorriente y consulte a su agente.
11. No bloquee los orificios de ventilación de la unidad que permiten el escape de calor.
12. Como esta unidad utiliza un portadisco o bandeja de CD motorizada, asegúrese de que su mano u otro objeto no obstruya el movimiento del mismo.

Botón POWER

Cuando se conecta el cordón eléctrico al tomacorriente de CA, el indicador de luz interna se ilumina. Cuando se presiona el botón POWER, el indicador de alimentación se apaga y se enciende la ventanilla de indicación.

Esta unidad consume una pequeña corriente cuando se la conecta a un tomacorriente de CA para hacer funcionar el controlador remoto y el temporizador para apoyo de la memoria del microprocesador. Cuando se coloca el botón POWER en STANDBY.

6. Non modificare il cavo di alimentazione in alcun modo.
7. Per evitare incidenti, non rimuovere viti per smontare l'unità e non toccare alcun componente interno.
8. Non inserire alcun oggetto metallico nell'unità.
9. Scollegare il cavo di alimentazione durante tempeste con fulmini.
10. Se dell'acqua dovesse penetrare all'interno dell'unità, scollegare il cavo di alimentazione dalla presa di rete e consultare il proprio rivenditore.
11. Non bloccare i fori per la ventilazione dell'unità che permettono la dissipazione del calore.
12. Dato che questa unità utilizza un piatto a caricatore di CD motorizzato, accertarsi di non ostruire il movimento con una mano o un oggetto.

Tasto POWER

Cuando el cavo de alimentación es conectado con una presa de rete CA, l'indicatore dell'alimentazione si illumina in rosso per indicare il modo STANDBY. Quando il tasto POWER viene premuto, l'indicatore dell'alimentazione si spegne ed il display si illumina.

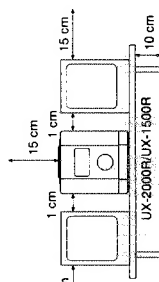
Quando questa unità è collegata ad una presa di corrente CA, essa consuma una piccola corrente per far funzionare il temporizzatore del telecomando e della memoria del microprocessore anche quando il tasto POWER è impostato su STANDBY.

Caution: Proper Ventilation

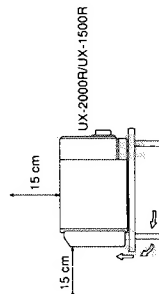
To avoid risk of electric shock and fire, and to prevent damage, locate the apparatus as follows:

1. Front: No obstructions and open spacing.
2. Sides/Top/Back: No obstructions should be placed in the areas shown by the dimensions below.
3. Back: Place on a level surface. Maintain an adequate air path for ventilation by placing on a table with a height of 10 cm or more.

Front view
Vista frontal
Visión anterior



Side view
Vista lateral
Visión lateral



Attenzione: Ventilazione corretta

Per evitare rischi di scosse elettriche e fiamme, installare l'apparecchio come indicato di seguito:

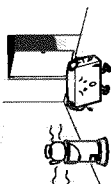
1. Lato anteriore: Nessun ostacolo e spazio aperto.
2. Lati sinistro e destro/superiore/posteriore: Nessun ostacolo deve essere posto nelle aree mostrate dalle dimensioni riportate in basso.
3. Fondo: Posizionare su di una superficie a livello. Mantenere un percorso adeguato per la ventilazione utilizzando una tavola con un'altezza di 10 cm o più.

PRECAUZIONI PER L'USO

PRECAUCIONES DE MANIPULACION



Do not use this unit in direct sunlight where it would be exposed to high temperatures above 40°C (104°F).



No utilice esta unidad bajo la luz directa del sol donde podría quedar expuesta a temperaturas superiores a 40°C.



Non utilizzare questa unità in luoghi esposti alla luce solare diretta dove la temperatura può superare i 40°C.

- Avoid installing in the following places**
 - Where it could be subject to vibrations.
 - Where it is excessively humid, such as in a bathroom.
 - Where it could be magnetized by a magnet.
 - Pay attention to dust**

Be sure to close the CD holder or CD tray so that dust does not collect on the lens. Do not touch the lens.
 - Condensation**

In the following cases, condensation may occur in the unit, in which case the unit may not operate correctly.

 - In a room where a heater has just been switched on.
 - Where there is smoke or high humidity.
 - When the unit is moved directly from a cold to a warm room.

In these cases, set the POWER button to ON and wait 1 or 2 hours before use.
 - Volume setting**

CDs produce very little noise compared with analog sources. If the volume level is adjusted for these sources, the speakers will produce a high level of noise when the volume is lowered. Therefore, lower the volume before operation and adjust it as required during play.
 - Safety mechanism**

This unit incorporates a safety interlock mechanism which switches the laser beam on and off, so that when the CD holder or CD tray is open, the laser beam stops automatically.
 - Do not place cassette tapes, etc. near the speakers**

Since there are magnets in the speakers, do not place tapes or magnetic cards on them as recorded data could be erased.
 - Keep this unit away from your TV**

When this unit is used near a TV, the TV picture could be distorted. If this happens, move the unit away from the TV. If this does not correct the situation, avoid using this unit when the TV is turned on.
 - Clean the cabinet**

When the cabinet gets dirty, wipe it with a soft, dry cloth. Never use benzine or thinner as these could damage the surface finish.
 - When listening with headphones**
 - Do not listen at high volumes as this could damage your hearing.
- Evite instalar en los siguientes lugares**
 - Donde pueda ser sujeta a vibraciones.
 - Donde haya humedad excesiva, tal como en un cuarto de baño.
 - Donde pueda ser magnetizada por un imán.
 - Preste atención al polvo**

asegure de cerrar el portadisco o compartimento de CD para que el polvo no se deposite sobre la lente. No toque la lente.
 - Condensación**

En los siguientes casos, puede producirse condensación dentro de la unidad y en consecuencia la unidad no funcionará correctamente.

 - En un lugar donde haya un calentador encendido.
 - En un lugar donde haya humo o gran humedad.
 - Cuando se traslada rápidamente la unidad desde una sala fría a una cálida.

En estos casos, coloque el botón POWER en ON (conectado) y espere 1 o 2 horas antes de utilizarla.
 - Ajuste del volumen**

Los discos compactos de CD producen muy poco ruido comparados con las fuentes analógicas. Si ajusta el nivel de volumen para estas fuentes, es posible que los altavoces sean dañados por el incremento brusco del nivel de salida. Por ello, reduzca el volumen antes de la operación y ajústelo como desee durante la reproducción.
 - Mecanismo de seguridad**

Esta unidad posee un mecanismo de encendido de seguridad que apaga y reinicia el rayo láser automáticamente cuando se abre el portadisco o compartimento de CD, el rayo láser se apaga automáticamente.
 - No coloque cassette de cinta, etc., próximos a los altavoces**

Como hay imanes en los altavoces, no coloque cintas o tarjetas magnéticas sobre los mismos, ya que los datos grabados podrían perderse.
 - Mantenga esta unidad lejos de su TV**

Cuando se usa esta unidad próxima a un TV, la imagen de éste puede ser distorsionada. Si ello ocurre, mueva esta unidad lejos del TV. Si así no corrige el problema, evite usar esta unidad cuando el TV está encendido.
 - Limpieza del gabinete**

Si el gabinete se ensucia límpielo con un paño suave y seco. Nunca utilice bencina o solventes ya que éstos pueden dañar la superficie.
 - Cuando escuche con auriculares**
 - No escuche con el volumen muy alto porque podrían dañarse sus oídos.
- Evitare l'installazione nei luoghi seguenti**
 - In luoghi dove l'unità può essere soggetta a vibrazioni.
 - In luoghi eccessivamente umidi come una stanza da bagno.
 - In luoghi dove l'unità può essere magnetizzata da un magnete o da un diffusore.
 - Fare attenzione alla polvere**

Assicuratevi di chiudere il piatto del CD in modo che la polvere non si raccolga sulla lente del pickup. Non toccare la lente del pickup.
 - Condensa**

Nel caso seguenti della condensa si potrebbe formare nell'unità, impedendo il funzionamento corretto della stessa.

 - In un luogo dove c'è un riscaldamento appena stato acceso.
 - In un luogo fumoso o con elevata umidità.
 - Cuando l'unità viene spostata direttamente da una stanza fredda ad una calda.

In questi casi, portare il tasto POWER su ON ed attendere 1 o 2 ore prima di utilizzare l'unità.
 - Impostazione del volume**

I prodotti discografici di CD, strumento a basso profilo, producono molto meno volume dei supporti analogici. Se il livello del volume fosse impostato per tali fonti, i diffusori potrebbero venire danneggiati dall'improvviso aumento del livello in uscita. Abbassare perciò il volume prima dell'uso e regolarlo quindi durante la riproduzione.
 - Mecanismo di sicurezza**

Questa unità incorpora un meccanismo di sicurezza che attiva e disattiva il raggio laser in modo che quando il piatto del CD è aperto il raggio laser viene automaticamente disattivato.
 - Non posare nastri a cassetta, ecc., in prossimità dei diffusori**

Dato che i diffusori incorporano dei magneti, non posare nastri registrati o schede magnetiche su di essi in quanto i materiali registrati potrebbero venire cancellati.
 - Tenere l'unità lontana dal televisore**

Cuando questa unità viene utilizzata in prossimità di un televisore, l'immagine potrebbe venire distorta. Se ciò dovesse accadere, allontanare l'unità dal televisore. Se ciò non fosse sufficiente ad eliminare le interferenze, evitare di utilizzare questa unità quando il televisore è acceso.
 - Pulizia dell'esterno dell'unità**

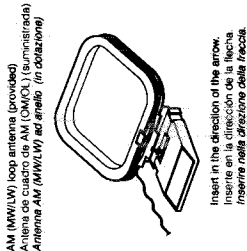
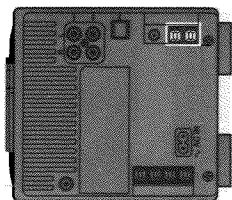
Se l'esterno dell'unità fosse sporco, strofinare con un panno morbido ed asciutto. Non usare mai benzina o diluente in quanto essi possono danneggiare la finitura delle parti.
 - Accanto con le cuffie**
 - Non ascoltare ad alto il volume in modo da danneggiare le orecchie.

CONNECTIONS

- Do not switch the power on until all connections are completed.

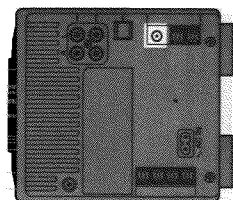
Antenna connection and adjustment

- AM (MW/LW) loop antenna adjustment

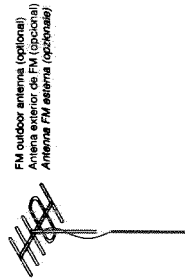


- Keep the loop antenna away from the unit and install it so that the best reception is obtained. (Do not leave the antenna wire in a bundle.)
- Do not place the antenna of another unit near the antenna of this unit, as this will cause interference with reception. (No debe dejar el cable de la antena de otra unidad cerca de la antena de esta unidad, ya que esto causará interferencia con la recepción.)
- Tenere l'antenna ad anello lontana dall'unità ed installarla in modo da ottenere la migliore ricezione possibile. (Non lasciare avvolto il filo dell'antenna.)

- FM antenna connections and adjustments



- Conexiones y ajuste de la antena de FM



- Use an outdoor antenna when stable reception cannot be obtained with the provided antenna.
- Cuando no sea posible obtener una recepción estable con la antena suministrada, utilice una antena exterior.
- Utilizzare un'antenna esterna quando non è possibile ottenere una ricezione stabile per mezzo dell'antenna in dotazione.

Notes:

- Do not place the loop antenna on a metal desk or near a TV or personal computer.
- Installing an outdoor antenna requires expertise; we recommend that you consult an audio dealer.
- Install the antenna cord away from the power and speaker cords as these could generate interference with reception.
- Do not touch the loop antenna so that it touches the rear of the unit.

Note:

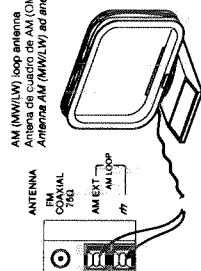
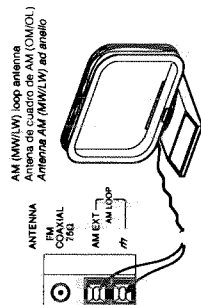
- Non installare l'antenna ad anello su di un tavolo metallico oppure nelle vicinanze di un televisore o di un personal computer.
- L'installazione di un'antenna esterna richiede esperienza; si raccomanda di consultare un rivenditore di apparecchiature audio.
- Installare il cavo dell'antenna lontano dal cavo di alimentazione e dai cavi dei diffusori in quanto questi potrebbero generare disturbi con la ricezione.
- Non toccare l'antenna ad anello in modo che non tocchi il retro dell'unità.

COLLEGAMENTI

- Non attivare l'alimentazione prima del completamento dei collegamenti.

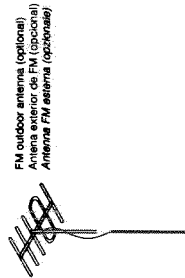
Collegamento e regolazione antenna

- Regolazione antenna AM ad anello (MW/LW)



- Keep the loop antenna away from the unit and install it so that the best reception is obtained. (Do not leave the antenna wire in a bundle.)
- Do not place the antenna of another unit near the antenna of this unit, as this will cause interference with reception. (No debe dejar el cable de la antena de otra unidad cerca de la antena de esta unidad, ya que esto causará interferencia con la recepción.)
- Tenere l'antenna ad anello lontana dall'unità ed installarla in modo da ottenere la migliore ricezione possibile. (Non lasciare avvolto il filo dell'antenna.)

- Conexiones y ajuste de la antena de FM



- Use an outdoor antenna when stable reception cannot be obtained with the provided antenna.
- Cuando no sea posible obtener una recepción estable con la antena suministrada, utilice una antena exterior.
- Utilizzare un'antenna esterna quando non è possibile ottenere una ricezione stabile per mezzo dell'antenna in dotazione.

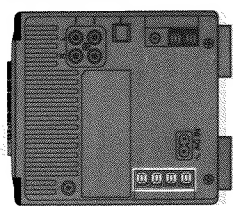
Notes:

- Do not place the loop antenna on a metal desk or near a TV or personal computer.
- Installing an outdoor antenna requires expertise; we recommend that you consult an audio dealer.
- Install the antenna cord away from the power and speaker cords as these could generate interference with reception.
- Do not touch the loop antenna so that it touches the rear of the unit.

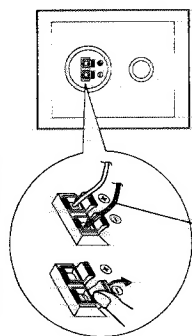
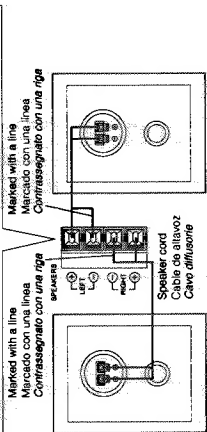
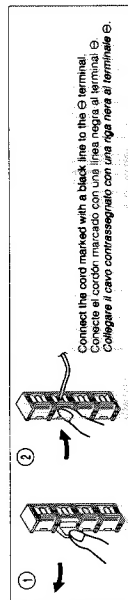
Note:

- Non installare l'antenna ad anello su di un tavolo metallico oppure nelle vicinanze di un televisore o di un personal computer.
- L'installazione di un'antenna esterna richiede esperienza; si raccomanda di consultare un rivenditore di apparecchiature audio.
- Installare il cavo dell'antenna lontano dal cavo di alimentazione e dai cavi dei diffusori in quanto questi potrebbero generare disturbi con la ricezione.
- Non toccare l'antenna ad anello in modo che non tocchi il retro dell'unità.

Speaker cord connection



Conexión de los cordones de los



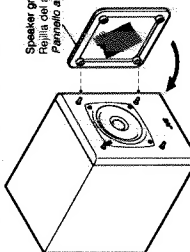
Connect the cord marked with a line to the **⊖** terminal.
Conecte el cordón marcado con una línea al terminal **⊖**.
Collegare il cavo contrassegnato con una linea al terminale **⊖**.

- The speaker grilles can be removed.

- When removing.
 1. Insert your fingers at the top and pull towards you.
 2. Also pull the bottom towards you.

- Attaching the speaker grille

- Colocación de la rejilla del altavoz
- Aplicación del nappello anterior al diffusore



the fittings when attaching the grille.
 • Incidir los encajes cuando coloque la rejilla.
 • Incidere i pannelli anteriori, badare a che le
 viti coincidano con i fori.

Totals:

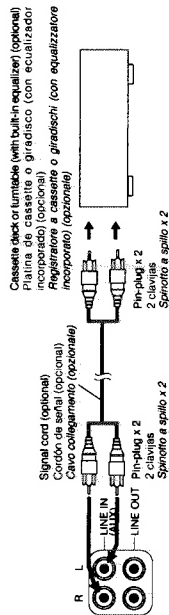
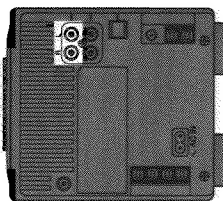
- The polarity of the two connected speakers will be the same if the speaker cords marked with a black line are connected to the terminals. If the speakers are connected with polarities reversed, stereo effect and tone will be degraded.
- The speakers of this unit are not magnetically shielded. Therefore, the speaker cords are adjacent to a TV. The TV's picture could be distorted. Install the speakers more than 20 cm away from your TV. (UX-1500R only)
- If the speakers are to be placed away from the main unit, purchase optional speaker cords from an audio store.
- When connecting the speaker cord make sure the speaker cord is connected to the speaker terminal. Otherwise, sound cannot be heard.

Note:

- La polarità dei diffusori collegati è la stessa. Se i loro cavi contrassegnati da una riga nera vengono collegati ai terminali (+), i diffusori vengono collegati con la polarità invertita, l'effetto stereofonico ed i toni possono degradarsi.
- I diffusori di questa unità non sono schermati magneticamente. Se essi vengono collegati a un'impianto di altoparlanti che ha un'elettronica d'immagine potrebbe venire disturbata. Installare i diffusori a più di 20 centimetri dal televisore.
- (solo LX-1500A)
- Installare i diffusori in una posizione lontana dall'unità, acquistare cavi audio opzionali presso un rivenditore di apparecchiature audio.
- Non collegare i cavi dei diffusori, controllare la polarità e la fase prima di collegarli. La polarità è la fase, non il morsetto. La riproduzione di alta fedeltà è impossibile.

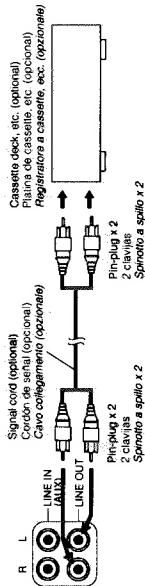
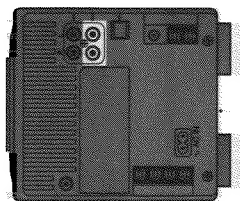
Connection of external audio units

- **Connection with a cassette deck or turntable, etc. (Line input) (AUX)**
It is possible to connect an external cassette deck or turntable to this unit and play back sound from these sources.



Conexión de unidades externas de audio

- Conexión con una platina de cassette o giradisco, etc. (Entrada de línea) (AUX)
Es posible conectar una platina externa de cassette o un giradisco a esta unidad y reproducir el sonido de estas fuentes.



- Connection with a cassette deck, etc.

- (analog output)**
When recording from this unit's CD player or radio to an external cassette deck, etc., connect the cord from this unit's line out terminals to the input terminals of the cassette deck, etc.

Conexión con una platina de cassette, etc.

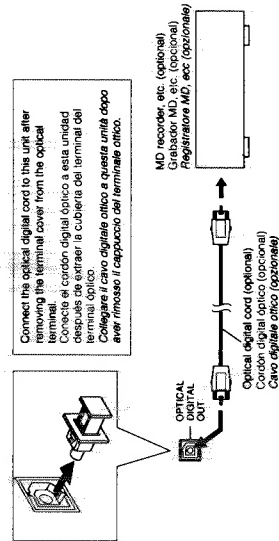
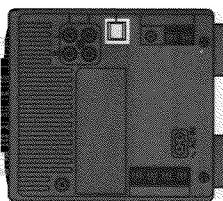
- (salida analógica)**
Cuando graba desde el reproductor de CD o de la radio de esta unidad en una platina externa de cassette, etc. conecte el cordón de los terminales de salida de esta unidad a los terminales de entrada de la platina de cassette, etc.

Connection with an MD recorder, etc.

- (digital output)**
It is possible to transmit a digital sound signal from the CD player of this unit directly to an external MD recorder, etc. that is equipped with an optical input terminal. In this case, connect the cord from this unit's CD optical digital output terminal to the optical input terminal of the MD recorder, etc.

Conexión con un grabador MD, etc. (salida

- Es posible transmitir una señal de sonido digital desde el reproductor de CD a esta unidad directamente a un grabador MD externo, etc., que este equipado con un terminal de entrada óptica. En este caso, conecte el cordón del terminal de salida digital óptica de esta unidad de CD al terminal de entrada óptica del grabador MD, etc.



- Collocamento con un registratore MD, ecc.

- (uscita digitale)**
E' possibile trasmettere il segnale digitale del lettore CD di questa unità direttamente ad un registratore MD esterno, ecc., fornito di un terminale di ingresso ottico. In questo caso, collegare l'uscita digitale ottica del lettore CD al terminale di ingresso ottico del registratore MD, ecc.

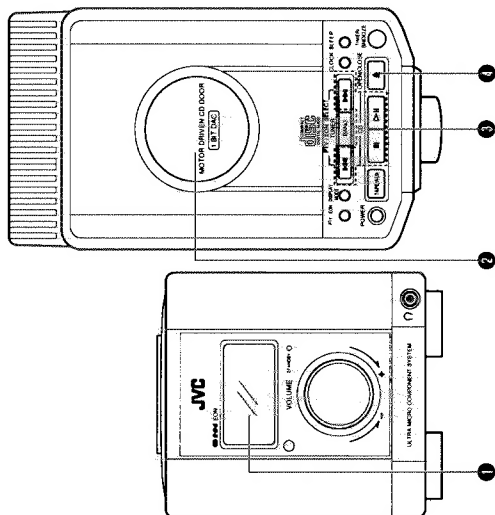
NOMI E FUNZIONI DELLE PARTI

NOMBRES DE LAS PARTES Y SUS FUNCIONES

NAMES OF PARTS AND THEIR FUNCTIONS

CD player section

Sección lector de CD

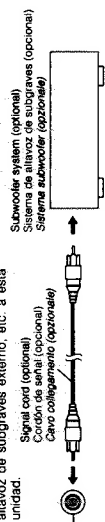


- 1** Display window
2 Playback indicator (▶)
3 Pause indicator (⏸)
4 Function/Track number display
5 Play time display
6 Program mode indicator (PROGRAM)
7 Repeat play indicator (≡ ALL)
8 Music calendar display
9 OVER indicator
10 CD operation buttons
11 Stop/clear button (■)
 Press to stop playing a CD or cancel programmed play. This also sets the CD mode.
 Play/pause button (⏮ ⏭)
 Press to play a CD or to stop temporarily.
 CD SEARCH buttons (⏮ ⏭, ⏮ ⏭):
 Press to locate the beginning of a track or start forward/reverse search operations.
12 CD holder (▲) OPEN/CLOSE button
- 1** Ventanilla de indicación
2 Indicador de reproducción
3 Indicador de pausa (⏸)
4 Indicación de función/número de pista
5 Indicación del tiempo de reproducción
6 Indicador del modo de programación (PROGRAM)
7 Indicador de reproducción aleatoria (RANDOM)
8 Indicador de repetición de reproducción (≡ ALL)
9 Indicador de calendario musical
10 Indicador de sobrepaseado (OVER)
11 Botones para operación del CD
12 Botón (■) de parada/borrado
 Presione para detener la reproducción de un disco o cancelar la reproducción programada. Este también activa el modo de CD (≡ ALL) de reproducción/pausa.
 Botones (⏮ ⏭, ⏮ ⏭) de búsqueda (SEARCH) del CD.
 Presione para ubicar al principio de una pista o para iniciar las operaciones de búsqueda hacia adelante/hacia atrás de la reproducción.
13 Botón (▲) de apertura/cierre (OPEN/CLOSE) del compartimiento del disco

- 1** Finestra display
2 Indicatore di riproduzione (▶)
3 Indicatore di pausa (⏸)
4 Display funzione/numero pista
5 Display tempo di riproduzione
6 Indicatore modo programmazione (PROGRAM)
7 Indicatore riproduzione casuale (RANDOM)
8 Indicatore riproduzione ripetuta (≡ ALL)
9 Display calendario musicale
10 Indicatore OVER
11 Piatto CD
12 Tasti funzionamento lettore CD
 Tasto arresto/cancellazione (■):
 Premere questo tasto per interrompere la riproduzione di un CD o per cancellare la riproduzione programmata. Questo tasto imposta anche il modo del CD.
 Tasto riproduzione/pausa (⏮ ⏭):
 Premere questo tasto per riprodurre un CD o per fermare temporaneamente la riproduzione.
 Tasti CD SEARCH (⏮ ⏭, ⏮ ⏭):
 Premere questi tasti per localizzare l'inizio di un brano o per avviare le operazioni di ricerca in avanti/indietro.
13 Tasto apertura/chiusura piatto CD (▲) (OPEN/CLOSE)

- Per eseguire questo collegamento è necessario un cavo digitale ottico (opzionale). Vedere il manuale di istruzioni del registratore MCJ per informazioni. Collegare il cavo digitale ottico a quest'unità dopo aver rimosso il cappuccio del terminale ottico.
- Collegamento con un sistema subwoofer (uscita subwoofer)
 È possibile collegare un sistema subwoofer esterno JVC, ecc., a questa unità.

- Conexión con un sistema de altavoz de subgraves (Salida del altavoz de subgraves)
 Es posible conectar un sistema JVC de altavoz de subgraves externo, etc., a esta unidad.



Note:
 Even when headphones are connected to the unit, sound from the subwoofer is not cut off. If you wish to listen to sound from the headphones only, turn off the subwoofer's power or turn down its volume, or disconnect the subwoofer's cord.
Note:
 Aunque los audífonos estén conectados a la unidad, el sonido del altavoz de subgraves no se silencia. Si usted desea escuchar el sonido proveniente de los audífonos solamente, desconecte la alimentación del altavoz de subgraves o baje el volumen del mismo, o desconecte el cordón del altavoz de subgraves.
Note:
 Il subwoofer funziona anche se si usano cuffia. Perché tacca, spegnerlo, abbassare il volume o scollegare il cavo.

Note:
 En relación a la conexión de unidades externas y sus operaciones, refiérase a las instrucciones suministradas con esas unidades.

Note:
 Per il collegamento con unità esterne ed il loro funzionamento, vedere le istruzioni fornite in dotazione a tali unità.

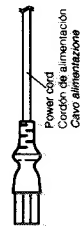
ALIMENTACION

Conexión del cordón de CA

- Conecte el cordón de CA después de haber terminado todas las conexiones.

Collegamento del cavo di alimentazione CA

- Collegare il cavo di alimentazione CA dopo aver eseguito tutti gli altri collegamenti.



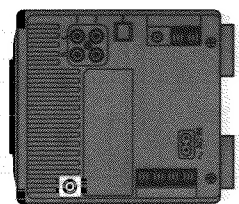
- PRECAUCIONES:**
 1. PARA EVITAR FALLAS O DAÑOS EN LA UNIDAD UTILICE EL CORDÓN DE ALIMENTACIÓN DE JVC SUMINISTRADO CON ESTA UNIDAD.
 2. ASEGURESE DE DESENCHUFAR EL CORDÓN DE ALIMENTACIÓN DEL COMARCINTELES CUANDO SE VA A REEMPLAZAR LAS BATERÍAS O LA UNIDAD POR UN LARGO PERÍODO.
- PRECAUZIONI:**
 1. UTILIZZARE SOLO IL CAVO DI ALIMENTAZIONE JVC IN DOTAZIONE A QUESTA UNITÀ. PER EVITARE DISFUNZIONI O DANNI ALL'UNITÀ, STESSA.
 2. ACCERTARSI DI SCOLLEGARE IL CAVO DI ALIMENTAZIONE ALL'ORA DI REMPLAZARE LE BATTERIE O QUANDO SI PREVEDE DI NON UTILIZZARE L'UNITÀ PER UN PERIODO PROLUNGATO.

Note:
 Cuando hay un corte de energía eléctrica o cuando se desconecta el cordón de alimentación CA, el ajuste del temporizador/reloj se borra de la memoria. Reposicione el reloj cuando se restaure el suministro eléctrico.

Note:
 Quando si verifica un'interruzione di corrente oppure quando il cavo di alimentazione CA viene scollegato, l'impostazione del timer/orologio viene cancellata dalla memoria. Reimpostare l'orologio quando l'alimentazione viene ristabilita.

- An optical digital cord (optional) is required to make this connection. Refer to the instruction manual for details. Connect the optical digital cord to the unit after removing the terminal cover from the optical terminal.

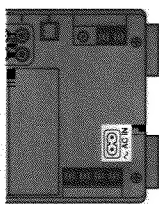
- Connection with a subwoofer system (Subwoofer output)
 It is possible to connect an external JVC subwoofer system, etc., to this unit.



Note:
 Regarding the connection with external units and their operations, refer to the instructions provided with those units.

Connection of AC power cord

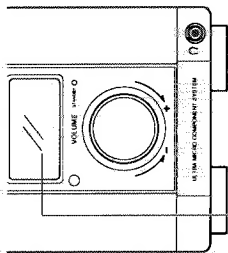
- Connect the AC power cord after all other connections have been made.



- CAUTIONS:**
 1. ONLY USE WITH JVC POWER CORD PROVIDED WITH THIS UNIT TO AVOID MALFUNCTION OR DAMAGE TO THE UNIT.
 2. BE SURE TO UNPLUG THE POWER CORD FROM THE OUTLET WHEN GOING OUT OR WHEN THE UNIT IS NOT IN USE FOR AN EXTENDED PERIOD OF TIME.

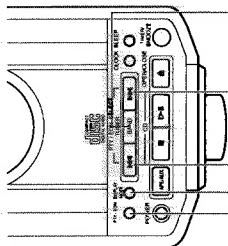
Note:
 When there is a power failure or the AC power cord is disconnected, the timer/clock setting is erased from memory. Reset the clock when the power supply is restored.

Tuner section



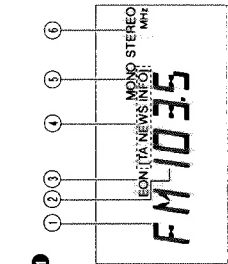
- 1 Display window
 - 2 Band indicator
 - 3 Band frequency display
 - 4 Band indicator (ON/OFF)
 - 5 Program type (T/NEWS/INFO) indicators
 - 6 MONO indicator
 - 7 STEREO indicator
 - 8 PTY (Programme Type)/EON (Enhanced Other Networks) button
 - 9 DISPLAY MODE button
 - 10 Tuning buttons (←/→/▶/◀)
 - 11 PTY (Programme Type)/EON (Enhanced Other Networks) SELECT buttons (←/→)
 - 12 TUNER/BAND button
- Press to select mode.
Press to select the band.

Sección del sintonizador



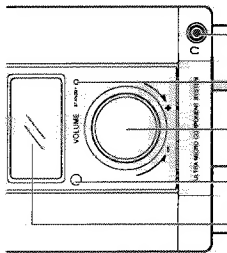
- 1 Ventanilla de indicación
 - 2 Indicador de banda
 - 3 Indicador de frecuencia de radio
 - 4 Indicador de ON/OFF
 - 5 Indicadores de tipo de programa (T/NEWS/INFO)
 - 6 Indicador mono (MONO)
 - 7 Indicador estéreo (STEREO)
 - 8 Botón PTY (tipo de programa)/EON (Realce de otras redes)
 - 9 Botones de sintonización (←/→/▶/◀)
 - 10 Botones SELECT (←/→/▶/◀) de PTY (Tipo de Programa)/EON (Realce de otras redes)
 - 11 Botón sintonizador/banda (TUNER/BAND)
- Presione para seleccionar el modo de sintonizador.
Presione para seleccionar la banda.

Sezione sintonizzatore



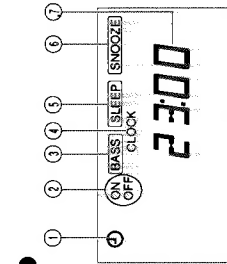
- 1 Finestrella display
 - 2 Indicatore banda
 - 3 Display frequenza
 - 4 Indicatore ON/OFF
 - 5 Indicatore tipo programma (T/NEWS/INFO)
 - 6 Indicatore mono (MONO)
 - 7 Indicatore stereo (STEREO)
 - 8 Tasto PTY (Tipo programma)/EON (Potenzamento altre reti)
 - 9 Tasti sintonizzazione (←/→/▶/◀)
 - 10 Tasto sintonizzatore/banda (TUNER/BAND)
- Premere questo tasto per selezionare il modo del sintonizzatore.
Premere questo tasto per selezionare la banda.

General section



- 1 Display window
 - 2 Timer mode indicator
 - 3 Timer indicator (ON/OFF)
 - 4 ACTIVE HYPER-BASS PRO indicator
 - 5 BASS indicator
 - 6 CLOCK indicator
 - 7 SNOOZE indicator
 - 8 Time display
 - 9 Bass/mobile level display
 - 10 Remote sensor section
 - 11 VOLUME control knob
 - 12 Power STANDBY indicator
 - 13 Headphones jack (3.5 mm dia. stereo mini)
- Connect headphones (impedance 16 Ω to 1 k Ω) to this jack. Speaker sound is automatically switched off when the headphones are connected.

Sección general

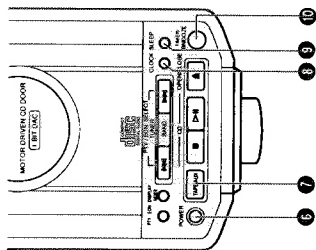


- 1 Ventanilla de indicación
 - 2 Indicador modo temporizador (ON/OFF)
 - 3 Indicador de activación/desactivación profesional (BASS)
 - 4 Indicador CLOCK
 - 5 Indicador SNOOZE
 - 6 Indicador de hora
 - 7 Indicador de nivel de volumen
 - 8 Indicador de nivel de grave/agudo
 - 9 Perilla de control VOLUME
 - 10 Indicador de espera (STANDBY) de alimentación
 - 11 Jack de audífonos (3.5 mm. de diám.)
- Conecte los audífonos (impedancia de 16 Ω a 1 k Ω) a este jack. El sonido de los altavoces se apaga automáticamente cuando se conectan los audífonos.

Sezione generale



- 1 Finestrella display
 - 2 Indicatore modo timer
 - 3 Indicatore Active Hyper-Bass Pro (BASS)
 - 4 Indicatore orologio (CLOCK)
 - 5 Indicatore SLEEP
 - 6 Indicatore SNOOZE
 - 7 Display orario
 - 8 Display livello volume
 - 9 Sezione sensore telecomando
 - 10 Manopola VOLUME
 - 11 Interruttore di apparecchio in attesa (STANDBY)
 - 12 Presa cuffie (3.5 mm stereo diam. 3.5 mm)
- Collegare le cuffie (impedenza da 16 Ω a 1 k Ω) a queste prese. Il suono dei diffusori viene eliminato automaticamente quando le cuffie vengono collegate.



- 1 POWER button
- 2 TAPE/AUX button
- 3 CLOCK button
- 4 SLEEP button
- 5 TIMERSNOOZE button

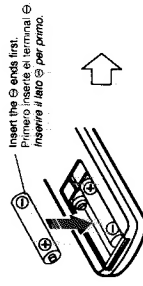
- 6 Botón de alimentación (POWER)
- 7 Botón TAPE/AUX
- 8 Botón del reloj (CLOCK)
- 9 Botón del temporizador de desconexión (SLEEP)
- 10 Botón TIMERSNOOZE

- 11 Tasto alimentazione (POWER)
- 12 Tasto TAPE/AUX
- 13 Tasto orologio (CLOCK)
- 14 Tasto spegnimento automatico (SLEEP)
- 15 Tasto TIMERSNOOZE

REMOTE CONTROL UNIT

Preparation before use

- Installing batteries in the remote control unit
- 1. Remove the battery cover from the back of the remote control unit.
- 2. Insert two "R6AA (15F)" size batteries.
- Insert the batteries with the \oplus and \ominus marks matching the indication inside the battery compartment.



Insert the \oplus ends first.
Insert the \ominus ends last.
Inserire il lato \oplus per primo.

UNIDAD DE CONTROL REMOTO

Preparativos antes usarla

- Instalación de las pilas en la unidad de control remoto
- 1. Extraiga la tapa de las pilas de la parte trasera de la unidad de control remoto.
- Inserte dos pilas de tamaño "R6AA (15F)".
- Inserte las pilas con los terminales \oplus y \ominus de acuerdo a la indicación en el interior del compartimento de las pilas.

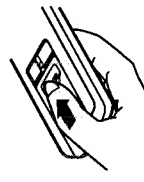


Insert the \oplus ends first.
Insert the \ominus ends last.
Inserire il lato \oplus per primo.

UNITA' DI TELECOMANDO

Preparativi prima dell'uso

- Installazione delle batterie nel telecomando
- 1. Rimuovere il coperchio del vano batterie dal retro del telecomando.
- 2. Inserire due batterie di formato "R6/AA (15F)".
- Inserire le batterie con i terminali \oplus e \ominus orientati come indicato all'interno del vano stesso.



Insert the \oplus ends first.
Insert the \ominus ends last.
Inserire il lato \oplus per primo.

3. Replace the cover.

● Battery replacement

When the remote control operation becomes unstable or the distance from which remote control is possible decreases, replace the batteries.

Using the remote control unit

- Point at the remote sensor section and operate within about 7 m (approx. 23 ft).
- The remote control range is less when the unit is used at an angle.
- Do not expose the remote sensor section to strong direct sunlight or artificial lighting.
- Make sure that there are no obstacles between the remote sensor section and the remote control unit.

3. Reclique la tapa.

● Remplacement de las pilas

Cuando el funcionamiento del controlador remoto se vuelve inestable o la distancia dentro de la cual actúa se reduce, reemplaze las pilas.

Utilización de la unidad de control remoto

- Apuntar a la sección del sensor remoto y opere dentro de los 7 m.
- El alcance del control remoto es menor cuando se lo usa en ángulo.
- No exponga la sección del sensor remoto a la luz directa del sol o a una fuerte iluminación artificial.
- Asegúrese de que no haya obstáculos entre la sección del sensor remoto y el control remoto.

3. Reinserire il coperchio.

● Sostituzione batterie

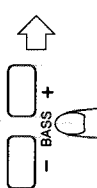
Quando il funzionamento dell'unità di telecomando è instabile oppure quando la distanza utile diminuisce, sostituire le batterie.

Uso dell'unità di telecomando

- Puntare l'unità verso la sezione del sensore di telecomando ed utilizzarla entro un'area di 7 m.
- Il campo d'utilizzo del telecomando è inferiore quando l'unità viene utilizzata da una posizione angolare.
- Non esporre la sezione del sensore del telecomando alla luce solare diretta o a una forte illuminazione artificiale.
- Accertarsi che non vi siano ostacoli tra la sezione del sensore di telecomando e l'unità di telecomando.

- When the power is switched on, the sound is faded in from volume level 0 (zero) to the level used before the power is switched off. (While the fade in mode is engaged, operating the VOLUME buttons or control knob interrupts fading.)

BASS/TREBLE buttons (using the remote control unit)
To set the bass or treble level, press the corresponding button. The level setting ranges from -8 to 6.



ACTIVE HYPER-BASS PRO button
ON: The BASS indicator lights up. Set to this position to activate ACTIVE HYPER-BASS. The BASS indicator goes out. Set to this position when ACTIVE HYPER-BASS PRO sound is not required.

DIMMER button (using the remote control unit)
When the power is switched on, the DIMMER button on the remote control window's light. When the button is pressed again, the display window returns to its normal brightness.

When the power is switched off:
When you want to look at the clock display, press this button; the display window lights with subdued brightness, and after 10 seconds, will go out. (The power is switched off.)
Within 10 seconds, all buttons except the DIMMER button, and the SNOCZE button do not function.



HANDLING CDS

Since dirty, damaged and warped CDs may damage the unit, take care regarding the following:

- Usable CDs**
Use CDs with the mark shown.
- Notes on handling CDs**
 - Do not touch the reflective recorded side.
 - Do not stick or write anything on the label side.
 - Do not bend CDs.
- Storage**
 - After removing a CD from the unit, be sure to put it back in its case.
 - Do not expose CDs to direct sunlight, high temperatures from a heater, etc., high humidity, or dust.
- Cleaning CDs**
 - Before loading a CD, wipe off any dust, dirt or fingerprints with a soft cloth. CDs should be cleaned by wiping radially from the center to the edge.

- Cuando se conecta la alimentación, el sonido se desvanecerá gradualmente del nivel de volumen 0 (cero) al nivel usado antes de desconectar la alimentación. (Mientras el modo de desvanecimiento está activado, el operar los botones VOLUME o el mando de control, interrumpe la atenuación.)

Botones BASS/TREBLE (usando el mando a distancia)
Para ajustar el nivel de grave o agudo, presione el botón correspondiente. El ajuste de nivel va de -8 a 6.



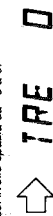
Botón de hiper grave activo profesional (ACTIVE HYPER-BASS PRO)
ON: Se enciende el indicador BASS. Seleccionar esta posición para activar el sonido hiper grave activo profesional. OFF: Se apaga el indicador BASS. Colocar en esta posición cuando no desee escuchar el sonido de hiper grave activo profesional.

Botón DIMMER (usando el mando a distancia)
Cuando se conecta la alimentación, el botón DIMMER en la ventana de la luz del visor reduce la intensidad de la luz del visor. Cuando el botón DIMMER se presiona de nuevo, el visor de indicación vuelve a su brillo normal.

Cuando la alimentación está desconectada:
Cuando usted desee ver la indicación del reloj, presione este botón; se encenderá el visor de indicación con brillo moribundo, y después de 10 segundos se apagará. (La alimentación está desconectada.)
Dentro de los 10 segundos, ningún otro botón excepto el botón DIMMER y el botón SNOCZE funcionan.

- Cuando la alimentación viene activada, el sonido se desvanecerá gradualmente del nivel 0 (cero) al nivel usado antes de desconectar la alimentación. (Mientras el modo de desvanecimiento está activado, el uso de los botones VOLUME o de la manopla de control interrumpe la desvanecimiento.)

Tast. BASS/TREBLE (con l'unità di telecomando)
Per impostare il livello dei bassi o degli acuti, premere il tasto corrispondente. L'impostazione del livello spazia da -8 a 6.



Tasto ACTIVE HYPER-BASS PRO
ON: L'indicatore BASS si illumina. Selezionare questa impostazione per attivare il suono iper grave attivo professionale. OFF: L'indicatore BASS si spagna. Selezionare questa impostazione per disattivare la funzione Active Hyper Bass Pro.

Tasto DIMMER (con l'unità di telecomando)
Quando l'alimentazione è attivata:
La pressione di questo tasto attenua l'illuminazione del display. Quando il tasto DIMMER viene premuto di nuovo, il display ritorna alla luminosità normale.

Quando l'alimentazione è disattivata:
Premere questo tasto quando si desidera vedere la visualizzazione dell'orologio; il display si illumina leggermente e si spaga dopo 10 secondi. (L'alimentazione viene disattivata.)
Entro i 10 secondi, tutti i tasti, esclusi i tasti con funzionamento ad un tocco ed il tasto TIME/SNOCZE, non funzionano.

MANIPULACION DE CD

Dado que los CD sucios, dañados o deformados pueden dañar la unidad, tome precauciones en relación a lo siguiente:

- CD utilizables**
Utilice CD con la marca indicada.
- Notas sobre manipulación de CD**
 - No toque la superficie grabada del CD.
 - No adherir ni escribir nada sobre el lado etiquetado.
 - No doblar los CD.
- Almacenamiento**
 - Después de extraer un CD de la unidad, asegúrese de colocarlo otra vez en su caja.
 - No exponga los CD a la luz directa del sol, altas temperaturas provenientes de un calentador, etc., alta humedad, o polvo.
- Limpieza de CD**
 - Antes de colocar un CD, limpie el polvo, suciedad o huellas digitales con un paño suave. Los CD deben ser limpiados radialmente desde el centro hacia el borde.

MANEGGIO DEI CD

Dato che CD sporchi, danneggiati o deformati possono danneggiare l'unità, fare attenzione a quanto segue:

- CD utilizzabili**
Utilizzare solo CD recanti il marchio indicato.
- Note sul maneggio dei CD**
 - Non toccare la superficie registrata del CD.
 - Non scrivere o incidere alcunché sul lato etichettato.
 - Non piegare i CD.
- Conservazione**
 - Dopo aver rimosso un CD dall'unità, accertarsi di riporlo nella sua custodia.
 - Non esporre i CD alla luce solare diretta, a temperature elevate, ad umidità elevata o a polvere.
- Pulizia CD**
 - Prima di inserire un CD, pulire polvere, sporco o impronte digitali con un panno morbido. I CD devono essere puliti strofinando radialmente, dal centro verso il bordo.

- Never use thinner, benzine, record cleaner or antistatic spray

- Nunca utilice solvente, bencina, limpiador de discos o aerosol antistático.

- Non utilizzare mai diluente, benzina, liquido pulente per dischi o spray antistatici.

Correct Handling

- Press the center and lift out.
- Presione el centro y levántelo.
- Premere il centro e sollevare.

Incorrect Handling

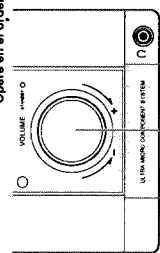
- Press the surface.
- Presione la superficie.
- Premere la superficie.

PLAYING CDS

Playing an entire CD

The following example of playing an entire CD assumes a CD with 12 tracks and a total playing time of 48 minutes 57 seconds.

Operate in the order shown

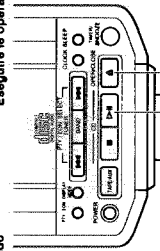


REPRODUCCION DE CD

Reproducción de un CD completo

El siguiente ejemplo de reproducción de un CD completo supone que se ha colocado un CD con 12 pistas y un tiempo total de reproducción de 48 minutos y 57 segundos.

Opere en el orden mostrado

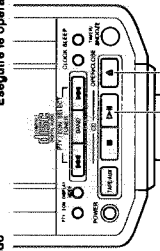


RIPRODUZIONE DI CD

Riproduzione di un intero CD

L'esempio seguente per la riproduzione di un intero CD considera un CD con 12 brani ed un tempo di riproduzione totale di 48 minuti e 57 secondi.

Eseguire le operazioni nell'ordine indicato



1. Press to open the CD holder. (The power is switched on.)
2. Load a CD with the label side facing up and close the CD holder.
3. Press to start play.
4. Adjust.

Note:
When the CD holder is closed by pressing the play button, the CD starts as soon as the CD holder is closed.

1. Premere il tasto per aprire il piatto del CD. (L'alimentazione viene attivata.)
2. Inserire un CD col lato etichettato in alto e quindi chiudere il piatto del CD.
3. Premere il tasto per l'avvio della riproduzione.
4. Regolare.

Note:
Quando il piatto del CD viene chiuso premendo il tasto play, la riproduzione del CD si avvia non appena il piatto è chiuso.

- 8-cm (3") CDs can be used in this unit without an adapter.

- Los CD de 8-cm pueden ser usados con esta unidad sin necesidad de adaptador.

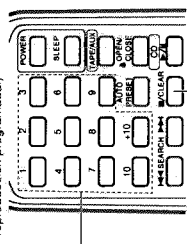
- La riproduzione di CD da 8 cm non richiede l'uso di alcun adattatore.

Riproduzione ad accesso diretto (utilizzando l'unità di telecomando)

- La pressione di uno qualsiasi dei tasti del numero del brano avvia la riproduzione dall'inizio del brano designato senza dover premere il tasto ►. (Questa funzione non può essere utilizzata durante la riproduzione programmata).

Reproducción por acceso directo (utilizando la unidad de control remoto)

- Si presiona cualquiera de los botones de número de pista la reproducción se iniciará al principio de la pista escogida sin que tenga que presionar el botón ►. (Esta función no puede ser usada durante la reproducción programada.)



1. Premere il tasto ■/CLEAR per impostare il modo del lettore CD.
2. Designare il brano desiderato utilizzando i tasti dei numeri di brano.

1. Presione el botón ■/CLEAR para activar el modo de CD.
2. Seleccione la pista deseada usando los botones de número de pista.

- Per designare i numeri di brano da 1 a 10, premere il tasto numerico corrispondente al numero del brano.
- Per designare il numero 11 o un numero maggiore, premere il tasto +10 per il numero di volte necessario e quindi un tasto numerico. (Esempio: Per indicare il 20° brano, premere una volta il tasto +10 e quindi il tasto di numero di brano 10).

- Para designar las pistas del número 1 al 10, presione el botón de número de pista correspondiente a la misma.
- Para designar el número 11 o número superior, presione el botón +10 el número necesario de veces, y luego un botón de número de pista. (Ejemplo: Para designar la pista 20, presione el botón +10 una vez, y luego presione el botón 10 de número de pista).

- Tasto +10: Ogni volta che questo tasto viene premuto, il numero aumenta di 10. Premere questo tasto per impostare le decine e quindi premere un tasto numerico per impostare le unità.

- Botón +10: Cada vez que presiona este botón el número se incrementa en 10. Primero presione este botón para ingresar las decenas, luego presione el botón de número de pista para ingresar las unidades.

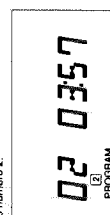
- Per saltare ad un altro brano durante la riproduzione premere il tasto ►/PROGRAM. Il numero del brano desiderato viene premuto, il display indica il numero di brano designato e la riproduzione inizia da tale brano.

- Para saltar a otra pista durante la reproducción presione el número de pista deseada. La indicación muestra el número de la pista y se inicia la reproducción desde el principio de la pista designada.

Riproduzione programmata (utilizzando l'unità di telecomando)

- Fino a 20 brani possono essere programmati per essere riprodotti in qualsiasi ordine. Premere il tasto ►/PROGRAM per impostare il tempo totale di riproduzione dei brani programmati viene visualizzato (fino a 99 minuti e 59 secondi). (Esempio: Quando si programma per riprodurre per primo il brano numero 2, per secondo il brano numero 6, per terzo il brano numero 12, ecc.).

To designate the 2nd track, Press selection to the 2nd track. Per designare il brano numero 2.



1. Premere il tasto ■/CLEAR.
2. Premere il tasto PROGRAM per impostare il modo di programmazione.
3. Designare il numero di brano desiderato con i tasti numerici.

1. Presione el botón ■/CLEAR.
2. Para activar el modo de programación, presione el botón PROGRAM.
3. Presione para seleccionar el número deseado de pista.

Direct access play (using the remote control unit)

- Pressing any of the track number buttons will start play from the beginning of the designated track without you having to press the ► button. (This function cannot be used during programmed play.)

1. Press the ■/CLEAR button to set to the CD mode.
2. Designate the required track using the track number buttons.

- To designate track numbers 1 to 10, press the track number button corresponding to the track number.
- To designate track number 11 or higher, press the +10 button the required number of times, then a track number button. (Example: To designate the 20th track, press the +10 button once, then press track number button 10).

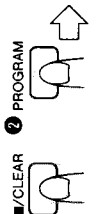
- +10 button: Each time this button is pressed, the number increases by 10. First press this button to set the 10's digit, then press the track number button to set the 1's digit.

- To skip to another track during play When the required track number button is pressed, the track number and play starts from the beginning of the designated track.

Programmed play (using the remote control unit)

- Up to 20 tracks can be programmed to be played in any required order. Press ►/PROGRAM to set the programmed tracks is displayed (up to 99 minutes, 59 seconds). (Example: When programming the 2nd track to be played first, and the 6th track next, then the 12th track, etc.)

To designate the 2nd track, Press selection to the 2nd track. Per designare il brano numero 2.



1. Press the ■/CLEAR button.
2. Press the PROGRAM button to set to the programming mode.
3. Press to designate the required track number.

1. Presione el botón ■/CLEAR.
2. Presione el botón PROGRAM para activar el modo de programación.
3. Presione para seleccionar el número deseado de pista.

Per l'interruzione nel mezzo di un CD

- Premere il tasto arresto/cancellazione (■) per interrompere la riproduzione.

Per interrompere temporaneamente la produzione del CD

- Premere il tasto ►/II per interrompere temporaneamente la riproduzione (l'indicazione "II" si illumina). Quando il tasto viene premuto nuovamente, la riproduzione riprende dalla posizione dove era stata interrotta.

Attenzione: Per cambiare i CD, premere il tasto arresto/cancellazione (■), controllare che il CD abbia smesso completamente di girare prima di estrarlo.

- Quando non è stato inserito alcun CD, l'indicazione "NO DISC" viene visualizzata nel display. Questa indicazione può apparire anche quando un CD viene inserito capovolgito.

- L'indicazione seguente potrebbe apparire quando un CD è sporco o graffiato oppure quando il CD viene inserito rovescio. In tali casi, controllare il CD e quindi reinserirlo dopo averlo pulito o voltato.

- Non utilizzare l'unità con temperature eccessivamente elevate o basse. La gamma raccomandata va dal 5°C al 35°C.
- Se la lettura del CD fosse scorretta durante la riproduzione, abbassare il volume.

Riproduzione con salto

- Durante la riproduzione è possibile saltare all'inizio del brano successivo oppure all'inizio del brano in corso di riproduzione o al brano precedente. La riproduzione inizia automaticamente quando l'inizio del brano desiderato viene raggiunto.

Per ascoltare il brano successivo... Premere una volta il tasto ►/► per saltare all'inizio del brano successivo.

Per ascoltare il brano precedente... Premere il tasto ◀/◀ per saltare all'inizio del brano in corso di riproduzione. Premere due volte in rapida successione per saltare all'inizio del brano precedente.

Riproduzione con ricerca (per localizzare una determinata posizione sul CD)

- La posizione desiderata può essere localizzata utilizzando la ricerca rapida in avanti o all'indietro durante la riproduzione di un CD.

Mantenga premuto per la ricerca rapida in avanti. Tenere premuto per la ricerca rapida all'indietro.

- Tenere premuto il tasto ►/► la riproduzione con ricerca inizia lentamente e quindi aumenta gradualmente la velocità.
- Dato che il suono può essere udito a basso volume (circa un quarto del livello normale) nel modo di ricerca, ascoltare e riascoltare il brano desiderato in diverse posizioni. Quando la riproduzione in posizione desiderata viene raggiunta.

Para detener la reproducción de un CD en la mitad de la misma

- Presione el botón ■/ para detener la reproducción.

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Para parar un CD temporariamente

- Presione el botón ►/II para interrumpir temporalmente la reproducción (la indicación "II" se enciende). Si lo presiona otra vez, la reproducción continúa desde el punto donde se efectuó la pausa.

Precaución: Para cambiar CDs, presione el botón ■/ para detener la reproducción, controle que el CD haya parado de girar antes de extraerlo.

- Cuando no hay ningún CD colocado, se visualiza el mensaje "NO DISC" en el visor de indicación. Esta indicación también puede ser visualizada cuando se coloca un CD invertido.

- La siguiente indicación puede aparecer cuando un CD está sucio o rayado, o cuando se lo ha colocado al revés. En tal caso, inspeccione el CD y colóquelo otra vez después de limpiarlo o de girarlo.

- No utilice la unidad en temperaturas excesivamente altas o bajas. Los límites de temperatura recomendados son de 5°C a 35°C.
- Después de la reproducción extraiga el CD.
- Si ocurre un error de seguimiento durante la reproducción, baje el volumen.

Reproducción con salto

- Durante la reproducción es posible saltar al inicio del siguiente disco o al inicio del disco en curso de reproducción o al disco anterior. La reproducción comienza automáticamente cuando el inicio del disco deseado es alcanzado.

Para escuchar la próxima pista... Presione una vez el botón ►/► para saltar al principio de la próxima pista.

Para escuchar la pista anterior... Presione el botón ◀/◀ para saltar al principio de la pista anterior. Presione dos veces rápidamente para saltar al principio de la pista anterior.

Reproducción con búsqueda (para localizar la posición deseada en el CD)

- La posición deseada puede ser ubicada utilizando la búsqueda de avance rápido o inversa mientras reproduce un CD.

Mantenga presionado para la búsqueda de avance rápido. Mantenga presionado para la búsqueda inversa.

- Mantenga presionado el botón ►/► la búsqueda con reproducción se inicia lentamente y luego aumenta gradualmente la velocidad.
- Como en el modo de búsqueda es posible escuchar el sonido a bajo volumen (aproximadamente un cuarto del nivel normal) en el modo de búsqueda, escuche y vuelva a escuchar el sonido en varias posiciones. Cuando la reproducción en la posición deseada, cuando haya localizado la posición deseada.

To stop a CD temporarily

- Press the ►/II button to stop play temporarily (The "II" indicator lights). When pressed again, play resumes from the point where it was paused.

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To stop a CD temporarily

- Press the ►/II button to stop play temporarily (The "II" indicator lights). When pressed again, play resumes from the point where it was paused.

Precaution: To change CDs, press the stop/clear (■) button, check that the CD has stopped rotating completely before unloading it.

- When no CD is loaded, "NO DISC" is indicated in the display window. This indication may also appear when a CD is loaded upside down.

- The following indication may appear when a CD is dirty or scratched, or when the CD is loaded upside down.

- In such a case, check the CD and insert again after cleaning the CD or turning it over.

Do not use the unit at excessively high or low temperatures

- The recommended temperature range is from 5°C (41°F) to 35°C (85°F).
- After play, unload the CD.
- If mistracking occurs during play, lower the volume.

To listen to the next track... Press the ►/► button once to skip to the beginning of the next track.

To listen to the previous track... Press the ◀/◀ button to skip to the beginning of the track being played, or the previous track, when the beginning of the required track has been located, play starts automatically.

Search play (to locate the required position on the CD)

- The required position can be located using fast-forward or reverse search while playing a CD.

Keep pressing for fast-forward search. Keep pressing for reverse search. Mantenga presionado para la búsqueda de avance rápido. Mantenga presionado para la búsqueda inversa.

- Hold down the button; search play starts slowly and then gradually increases in speed.
- Since low-volume sound (at about one quarter of the normal level) can be heard in the search mode, monitor the sound and release the button when the required position is located.

Random play (using the remote control unit)

Press the RANDOM button, and all tracks on a CD play once in random order.

Reproducción aleatoria (utilizando la unidad de control remoto)

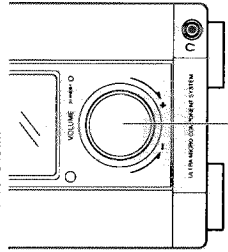
Para reproducir una vez todas las pistas de un CD aleatoriamente, presione el botón RANDOM.

Riproduzione casuale (utilizzando l'unità di telecomando)

Premere il tasto RANDOM e tutti i brani di un CD vengono riprodotti una volta in ordine casuale.

RADIO RECEPTION

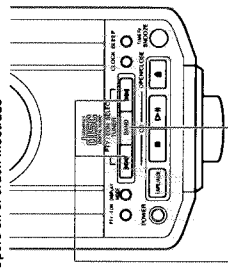
Operate in the order shown



- Press the TUNER/BAND button.
 - The power is switched on and a band and radio frequency will be shown in the display.
- Select the band.
- Tune to the required station.
- Adjust.

RADIORRECEPCION

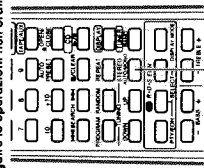
Opere en el orden mostrado



- Presione el botón TUNER/BAND.
 - Se conecta la alimentación y aparece en el visor una banda y una frecuencia de radio.
- Selecciona la banda.
- Sintonice la estación deseada.
- Ajuste.

RICEZIONE CON LA RADIO

Eseguire le operazioni nell'ordine indicato



- Premere il tasto TUNER/BAND.
 - Il sistema si accende e sul display viene visualizzata la banda e la frequenza.
- Sintonizzare la stazione desiderata.
- Regolare.

STEREO AUTO/MONO button (using the remote control unit)

Auto mode:
Set this position when listening to or recording in FM or FM stereo. The STEREO indicator lights when the FM stereo broadcast is received.

MONO:
Set to this position when FM stereo reception is noisy.
When another station is tuned to in the MONO mode, the unit automatically enters Auto mode.

Botón STEREO AUTO/MONO (utilizando la unidad de control remoto)

Modo automático:
Colóquelo en esta posición cuando escucha o graba una estación estereofónica de FM. En este modo, el indicador de STEREO se enciende cuando la transmisión estereofónica de FM recibe una radiodifusión estereofónica de FM.

MONO:
Colóquelo en esta posición cuando la recepción estereofónica de FM tenga ruido. Si se sintoniza otra estación en el modo MONO, la unidad ingresa automáticamente en el modo automático.

Tasto STEREO AUTO/MONO (utilizzando l'unità di telecomando)

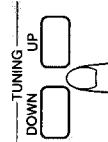
Modo auto:
Impostare questa posizione quando si ascolta o si registra una trasmissione FM stereo. L'indicatore del modo STEREO si accende quando la trasmissione ricevuta è in stereo.

MONO:
Impostare questa posizione quando la ricezione FM di una stazione viene sintonizzata nel modo MONO. L'unità entra automaticamente nel modo automatico.

Búsqueda de sintonía

Presione el botón UP o DOWN (▲ o ▼) para un segundo o más. La unidad ingresa durante un segundo o más. La unidad ingresa automáticamente en el modo de búsqueda de sintonía automáticamente la estación más próxima y por eso se escucha la radiodifusión. En la operación de AM la frecuencia se mueve continuamente desde la banda de OM a la de OL y viceversa.

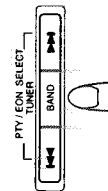
(Using the remote control unit)
(Utilizando la unidad de control remoto)
(Utilizzando l'unità di telecomando)



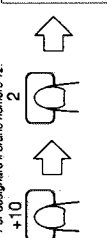
Sintonizzazione con ricerca

Premere il tasto UP o DOWN (▲ o ▼) per un secondo o più. L'unità entra nel modo di sintonizzazione con ricerca per sintonizzarsi automaticamente sulla stazione più vicina in modo da poter udire la trasmissione. Durante il funzionamento in AM, la frequenza passa continuamente dalla banda MW a quella LW e viceversa.

(Using the main unit)
(Utilizzando l'unità principale)



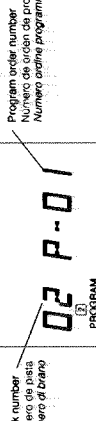
To designate the 12th track.
Para seleccionar la 12ª pista.
Per designare il brano numero 12.



The total playback time of programmed tracks is displayed.
Se presiona el botón de reproducción, se muestra el tiempo de reproducción total de los brani programados.

- Designate the remaining tracks by pressing the track number buttons.
- Press the ►/III button when programming is completed. Programmed play starts.

To confirm the details of a program...
Presione el botón PROGRAM, las pistas que componen el programa serán indicadas en el orden programado.



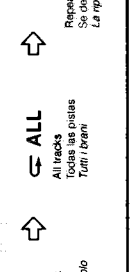
Para borrar las pistas programadas...

Presione el botón CLEAR antes de reproducir el CD. Durante la reproducción programada, presione este botón dos veces. Cuando se abre el CD, los datos de reproducción de los programas se borran automáticamente.

- Notes:**
- If the total playing time of the programmed tracks exceeds 99 minutes 59 seconds, the total playing time indication will go out.
 - When a with 10 or more tracks is loaded, the "OVER" indicator will appear.

Repetición de reproducción (utilizando la unidad de control remoto)

Presione el botón REPEAT antes o durante la reproducción. Es posible repetir un o todos los programas. Puede especificar la reproducción de una sola o de todas las pistas. Cada vez que presiona el botón REPEAT el modo cambia a la siguiente manera: una sola pista (≡), a todas las pistas (≡ ALL), al modo de borrado, en este orden.



- Repetición de una sola pista (≡)
La pista que está siendo reproducida será reproducida repetidamente.
- Repetición de todas las pistas (≡ ALL)
La unidad reproducirá repetidamente todas las pistas de un CD o las programadas.

The 12th track.
La 12ª pista.
Il brano numero 12.



- Designate the remaining tracks by pressing the track number buttons.
- Press the ►/III button when programming is completed. Programmed play starts.

Per controllare i dettagli di un programma...
Premere il tasto PROGRAM, i brani programati vengono visualizzati nell'ordine di programmazione.



Per cancellare i brani programati...
Premere il tasto CLEAR prima di riprodurre un CD. Durante la riproduzione programata, premere questo tasto due volte. Quando si apre il CD, i dati di riproduzione dei programmi vengono cancellati automaticamente.

- Notes:**
- Se la durata dei brani programati per la riproduzione supera i 99 minuti e 59 secondi, l'indicazione della durata della riproduzione andrà fuori.
 - Quando si carica un CD contenente 16 brani o più, l'indicazione "OVER" si illumina.

Riproduzione ripetuta (utilizzando l'unità di telecomando)

Premere il tasto REPEAT prima o durante la riproduzione. È possibile ripetere un singolo brano oppure tutti i brani. Si può specificare la ripetizione di un brano o di tutti i brani. Ogni volta che il tasto REPEAT viene premuto, il modo cambia da ripetizione di una sola pista (≡) a la ripetizione di tutti i brani (≡ ALL) al modo di cancellazione, in questo ordine.



- Ripetizione di un singolo brano (≡)
Il brano in corso di riproduzione viene riprodotto ripetutamente.
- Ripetizione di tutti i brani (≡ ALL)
Tutti i brani oppure tutti i brani programati di un CD vengono riprodotti ripetutamente.

Manual tuning

Each time the UP or DOWN (▲► or ◀◄) button is pressed, the unit steps through the current frequency band. Tuning is done in steps of 50 kHz for FM and 9 kHz for AM (MW/LW). In AM, the unit continuously scans the frequency bands continuously from the MW (522-1 629 kHz) to the LW (144-288 kHz) band and vice versa.

Press to move to lower frequencies.
Press to move to higher frequencies.
Press to stop manual tuning.
Press to increase the frequency.

Notes:

- When seek tuning to the required station is not possible because the broadcast signal is too weak, press the UP or DOWN (▲► or ◀◄) button momentarily to perform manual tuning.
- When the power is set to STANDBY, or another mode (CD or TAPE/AUX), is selected, the last tuned frequency is stored in memory. When the power is switched on again and TUNER/BAND button is pressed, the same station will be tuned to.

Auto preset tuning (using the remote control unit)

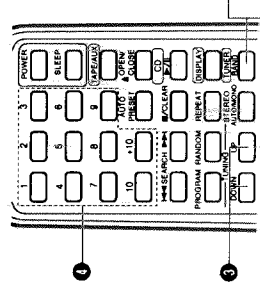
This function scans the current band, detecting frequencies used to broadcast signals and stores the first 30 FM frequencies and 15 AM (MW/LW) frequencies in memory automatically.

- Press the TUNER/BAND button for more than 2 seconds. The frequencies of stations broadcasting signals can be stored in memory automatically in the order of increasing frequency. (30 stations in FM band and 15 stations in AM (MW/LW) band)

Presetting stations (using the remote control unit)

30 stations in FM band and 15 stations in AM (MW/LW) band can be preset as follows:

- Example: - Presetting an FM station broadcasting on 103.5 MHz to preset button "15".



1 Press the TUNER/BAND button.
2 Select the FM band using the TUNER/BAND button.
3 Tune to the required station.
4 Press preset button "10", then "5" for more than 2 seconds. The frequency of the station (When "15" blinks in the preset station display, the station has been stored)

Sintonización manual

Cada vez que se presiona el botón UP o DOWN (▲► o ◀◄), la unidad pasa a través de la banda de frecuencia actual. La sintonización es efectuada en pasos de 50 kHz para FM y 9 kHz para AM (MW/LW). En AM, la frecuencia cambia continuamente desde la MW (522-1 629 kHz) a la de OL (144-288 kHz) y viceversa.



Notes:

- Quando la sintonización por búsqueda de la estación deseada no es posible debido a que la señal de radiodifusión es demasiado débil, presione el botón UP o DOWN (▲► o ◀◄) momentáneamente para realizar la sintonización manual.
- Quando la alimentación está conectada en STANDBY, o cuando selección otro modo (CD o TAPE/AUX), la última frecuencia sintonizada es almacenada en memoria. Cuando conecta la alimentación otra vez y presiona el botón TUNER/BAND, la unidad sintonizará la misma estación.

Sintonización automática (utilizando la unidad de control remoto)

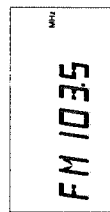
Esta función busca la banda de actual, detectando las frecuencias utilizadas para la radiodifusión y almacena las primeras 30 frecuencias de FM y 15 frecuencias de AM (MW/LW) en memoria automáticamente.

- Presione el botón AUTO PRESET durante más de 2 segundos. Las frecuencias de las emisoras emitiendo señales de radiodifusión pueden ser almacenadas en memoria automáticamente en orden de frecuencia creciente (30 estaciones en la banda de FM y 15 estaciones en la banda de AM (MW/LW)).

Presintonización de estaciones (utilizando la unidad de control remoto)

Es posible presintonizar 30 estaciones en la banda de FM y 15 estaciones en la banda de AM (OMOL) de la siguiente forma:

- Ejemplo: (Presintonización de la radiodifusión de una estación de FM en 103.5 MHz en el botón "15" de presintonización)



1 Presione el botón TUNER/BAND.
2 Seleccione la banda de FM utilizando el botón TUNER/BAND.
3 Presione la estación deseada.
4 Presione el botón "10" de presintonización (Cuando el "15" parpadee en la indicación de estación presintonizada, ésta ha sido registrada).

Sintonización manual

Ogni volta che il tasto UP o DOWN (▲► o ◀◄) viene premuto, la frequenza cambia all'interno della banda corrente. La sintonizzazione viene eseguita in passi da 50 kHz in FM e 9 kHz in AM (MW/LW). In AM, la frequenza cambia continuamente dalla MW (522-1 629 kHz) alla banda LW (144-288 kHz) e viceversa.

Press to move to higher frequencies.
Press to move to lower frequencies.
Press to stop manual tuning.
Press to increase the frequency.

Notes:

- Quando la sintonizzazione con ricerca della stazione desiderata non è possibile poiché la segnale della trasmissione è troppo debole, premere momentaneamente il tasto UP o il tasto DOWN (▲► o ◀◄) momentaneamente per eseguire la sintonizzazione manuale.
- Quando l'alimentazione è impostata su STANDBY oppure si seleziona un altro modo (CD o TAPE/AUX), l'ultima frequenza sintonizzata viene memorizzata. Quando l'alimentazione viene riativata e si preme il tasto TUNER/BAND, tale frequenza viene sintonizzata.

Sintonización automática (utilizando el telecomando)

Esta función busca la banda de actual, detectando las frecuencias utilizadas para la radiodifusión y almacena las primeras 30 frecuencias de FM y 15 frecuencias de AM (MW/LW) en memoria automáticamente.

- Presione el botón AUTO PRESET por más de 2 segundos. Las frecuencias de las estaciones que transmiten señales de radiodifusión pueden ser almacenadas en memoria automáticamente en el orden de frecuencia creciente. (30 estaciones por la banda FM y 15 estaciones por la banda AM (MW/LW)).

Presintonización de estaciones (utilizando el telecomando)

30 estaciones por la banda FM y 15 estaciones por la banda AM (MW/LW) pueden ser presintonizadas en el modo siguiente:

- Ejemplo: (Per presintonizar una estación de FM que transmite su señal en 103.5 MHz en el botón "15" de presintonización)

- Repeat the above procedure for each of the other stations, using a different preset button each time.
- Repeat the above procedure for the other band.

To change preset stations
Perform step 3 above after tuning to the required station.

Notes:

- Previous stored station is erased when a new station is stored, because the new station's frequency replaces the previous frequency in memory.
- When listening to an AM (MW/LW) broadcast, noise may be heard if the remote control unit is used.
- All preset stations will be erased when the power cord is disconnected or a power failure occurs for more than 24 hours. In such cases, store the stations again.

Preset tuning

- The stations must be preset before this operation can be performed.

(Using the remote control unit)

- Press the TUNER/BAND button.
- Select the band using the TUNER/BAND button.
- Press the required preset station buttons (No. 1 - No. 10 and *10).
- The preset station number and frequency corresponding to the button pressed are shown.

Using the antennas (see page 6)

FM: Connect the provided FM feeder antenna.
AM (MW/LW): Adjust the position of the AM (MW/LW) loop antenna.

RDS (Radio Data System)

Using the RDS (Radio Data System) to Receive FM Stations
RDS allows FM stations to send additional signals with their regular programme signals. For example, the stations send their station names, and information about what type of programmes they broadcast, such as sports or music, etc. This unit can receive the following types of RDS signals:
PS (Programme Service): Shows commonly known station names.
PTY (Programme Type): Shows types of broadcast programmes.
RT (Radio Text): Shows text messages the station sends.
TA (Traffic Announcement): Shows traffic announcements being broadcast.

- Repeat the procedure de arriba para cada una de las otras estaciones, utilizando un botón de presintonización diferente para cada estación.
- Repita el procedimiento de arriba para la otra banda.

Cambio de estaciones presintonizadas
Ejecute el paso 3 de arriba después de sintonizar la estación deseada.

Notes:

- Estación previamente almacenada se borra cuando se almacena otra estación, porque la frecuencia de la nueva estación reemplaza la frecuencia anterior en memoria.
- Cuando escucha una radiodifusión de AM (OMOL), es posible que se escuche ruido si se utiliza la unidad de control remoto.
- Todas las estaciones presintonizadas se borran cuando se desconecta el cordón de alimentación u ocurre un corte de energía de más de 24 horas. En tales casos almacene las estaciones otra vez.

Presintonización

- Las estaciones deben ser presintonizadas antes de que se pueda ejecutar esta operación.

(Utilizando la unidad de control remoto)

- Presione el botón TUNER/BAND.
- Seleccione la banda utilizando el botón TUNER/BAND.
- Presione los botones (No. 1 - No. 10 y *10) de la estación presintonizada deseada.
- En el visor aparecerá el número de estación presintonizada y la frecuencia correspondiente al botón presionado.

Utilización de antenas (ver página 6)

FM: Conecte la alimentación de antena FM suministrada.
AM (OMOL): Ajuste la posición de la antena de cuadro de AM (OMOL).

RDS (Sistema de datos por radio)

Uso de RDS (Sistema de Datos por Radio) para recibir estaciones de FM
El RDS permite que las estaciones de FM envíen señales adicionales con las señales de los programas normales. Por ejemplo, las estaciones envían sus nombres, e información acerca del tipo de programas que difunden tales como deportes o música, etc. Esta unidad puede recibir los siguientes tipos de señales:
PS (Servicio de programación): muestra nombres de radiodifusoras conocidas.
PTY (Tipo de programa): muestra los tipos de programas emitidos.
RT (Texto Radio): muestra mensajes textuales que la estación emite.
TA (Anuncio de tráfico): muestra anuncios de tráfico que están siendo emitidos.

- Repitete la procedura soprandicata per ciascuna stazione desiderata utilizzando ogni volta un tasto di preselazione diverso.
- Repitete la procedura soprandicata per l'altra banda.

Per cambiare le stazioni preselionate
Esegure la fase 3 dopo aver sintonizzato la nuova stazione desiderata.

Note:

- Quando si memorizza una nuova stazione, la stazione memorizzata in precedenza viene cancellata in quanto la frequenza della nuova stazione sostituisce quella memorizzata in precedenza.
- Quando si ascolta una trasmissione AM (MW/LW) si possono udire dei disturbi se viene utilizzato il telecomando.
- Tutte le stazioni preselionate vengono cancellate se il cavo di alimentazione viene cancellato oppure se si verifica un'interruzione di corrente per più di 24 ore. In tali casi eseguire nuovamente la memorizzazione delle stazioni.

Sintonizzazione stazioni preselionate

- Le stazioni devono essere preselionate prima di poter eseguire questa operazione.

(Utilizzando l'unità di telecomando)

- Premere il tasto TUNER/BAND.
- Selezionare la banda utilizzando il tasto TUNER/BAND.
- Premere il tasto della stazione preselionata desiderata (No. 1 - No. 10, *10).
- Il numero della stazione preselionata e la frequenza corrispondenti al tasto premuto vengono visualizzati.

Uso delle antenne (vedi pag. 6)

FM: Collegare l'antenna FM a platina in dotazione.
AM (MW/LW): Regolare la posizione dell'antenna AM (MW/LW) ad anello.

Sistema dati radio (RDS)

Uso del sistema RDS (sistema dati radio) per ricevere stazioni FM
Il sistema RDS permette alle stazioni FM di trasmettere segnali addizionali oltre ai normali segnali dei programmi regolari. Per esempio, le stazioni possono trasmettere il nome della stazione ed informazioni riguardanti il tipo di programma, come sport, musica, ecc. L'unità è in grado di ricevere i seguenti tipi di segnali:
PS (Servizio Programmi): per nomi di stazioni comunemente noti.
PTY (Tipo Programma): per il tipo di programma.
RT (Testo Radio): per messaggi trasmessi dalla stazione.
TA (Anuncio Traffico): per annunci sul traffico.

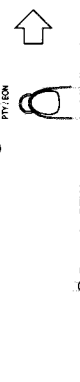
What information can RDS signal provide?
The display shows RDS signal information that the station sends. **Signals on the display:** Press the DISPLAY MODE button while listening to an FM station. Each time you press the button, the display changes to show information in the following order:



PS (Programme Service):
While searching, "PS" appears, then station name is displayed. "NO PS" appears if no signal is sent.
PTY (Programme Type):
While searching, "PTY" appears, then broadcast programme type is displayed. "NO PTY" appears if no signal is sent.
RT (Radio Text):
While searching, "RT" appears, then a text message is sent by the station is displayed. "NO RT" appears if no signal is sent.
Station Frequency:
Station frequency (non-RDS service)

Notes:
• If searching finishes at once, "PS", "PTY", and "RT" will not appear on the display.
• If you press the DISPLAY MODE button while listening to an AM (MW/LW) station, the display will show information for AM (MW/LW) broadcasts.
On characters displayed
When the display shows PS, PTY or RT signals:
• The display shows upper case letters only.
• The display cannot show accented letters. For example, "A" may represent accented "Å" like "A, A, Å, Å, A and Å".

Quel' informazioni vengono fornite dal sistema RDS?
Il display visualizza le informazioni RDS trasmesse dalla stazione. Premere il tasto DISPLAY MODE mentre si ascolta una stazione FM. Ogni volta che il tasto viene premuto, il display cambia la visualizzazione nell'ordine seguente:

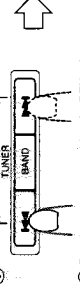


PS (Servizio Programma):
Durante la ricerca appare l'indicazione "PS" e quindi viene visualizzato il nome della stazione. Se il segnale non viene trasmesso, viene visualizzata l'indicazione "NO PS".
PTY (Tipo Programma):
Durante la ricerca appare l'indicazione "PTY" e quindi viene visualizzato il tipo di programma trasmesso. Se il segnale non viene trasmesso, viene visualizzata l'indicazione "NO PTY".
RT (Testo Radio):
Durante la ricerca appare l'indicazione "RT" e quindi viene visualizzato il messaggio trasmesso dalla stazione. Se il segnale non viene trasmesso, viene visualizzata l'indicazione "NO RT".
Frequenza stazione:
Frequenza della stazione (servizio non RDS)

Note:
• Se la ricerca termina subito, "PS", "PTY" e "RT" non appaiono sul display.
• Se si preme il tasto DISPLAY MODE mentre si ascolta una stazione AM (MW/LW), il display visualizza solo la frequenza della stazione.
• Il sistema RDS non è disponibile per le trasmissioni AM (MW/LW).

Caratteri visualizzati
Quando il display visualizza segnali PS, PTY o RT:
• Il display visualizza solo lettere maiuscole.
• Il display non è in grado di visualizzare lettere accentate. Per esempio, la lettera "A" può rappresentare una qualsiasi delle "A" accentate come "A, A, Å, Å, A e Å".

To search for a programme by PTY codes
One of the advantages of the PTY service is that you can locate a particular kind of programme by specifying the PTY codes.



To search for a programme using PTY or TA codes:
① Press the PTY button once while listening to an FM station.
The display alternates between "PTY" and "SELECT".
② Select the PTY code using the PTY SELECT (←/→) buttons within 10 seconds.
Each time you press the button, the display shows a category in the following order:
NEWS → AFFAIRS → INFO → SPORT → EDUCATE → DRAMA → CULTURE → SCIENCE → VARIED → POP M → ROCK M → M.O.R.M → LIGHT M → CLASSICS → OTHER M → TRAFFIC → NEWS
③ Press the PTY button within 10 seconds again.
While searching, the display alternates between "SEARCH" and the selected PTY code.
The unit searches 30 preset stations of the category you have selected, then tunes into that station.

To continue searching after the first stop,
press the PTY button again while the display indicates blink.
If no programme is found, "NOT FOUND" appears on the display.

To stop searching at any time during the process
Using any tuner operating buttons and controls stops search operation.

Descriptions of the PTY Codes
NEWS: Topical programme expanding on the current news or affairs.
AFFAIRS: Topical programme expanding on the current news or affairs.
INFO: Programmes on medical service, weather forecasts, etc.
SPORT: Sports events.
EDUCATE: Educational programmes.
DRAMA: Radio plays.
CULTURE: Programmes on national or regional culture.
SCIENCE: Programmes on natural sciences or technology.
VARIED: Other programmes like comedies or ceremonies.
POP M: Pop music.
ROCK M: Rock music.
M.O.R.M: Middle-of-the-road music (usually called "easy listening").
LIGHT M: Light music.
CLASSICS: Classical music.
OTHER M: Other music.
ALARM: Emergency broadcasts.
TRAFFIC: Broadcasts which carry traffic announcements.
NONE: Undefined (this cannot be searched).

Per ricercare un programma per mezzo dei codici PTY
Uno dei vantaggi del sistema RDS è che esso permette di localizzare programmi di un tipo particolare specificando il codice PTY.



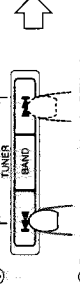
Per ricercare un programma utilizzando i codici PTY o TA:
① Premere una volta il tasto PTY mentre si ascolta una stazione FM.
La visualizzazione sul display si alterna tra "PTY" e "SELECT".
② Selezionare il codice PTY utilizzando i tasti PTY SELECT (←/→) entro 10 secondi.
Ogni volta che un tasto viene premuto, il display visualizza una categoria nell'ordine seguente:
NEWS → AFFAIRS → INFO → SPORT → EDUCATE → DRAMA → CULTURE → SCIENCE → VARIED → POP M → ROCK M → M.O.R.M → LIGHT M → CLASSICS → OTHER M → TRAFFIC → NEWS
③ Premere nuovamente il tasto PTY entro 10 secondi.
Durante la ricerca, la visualizzazione sul display alterna tra "SEARCH" ed il codice PTY selezionato.
L'unità ricerca 30 stazioni preselezionate, si ferma quando trova una stazione della categoria selezionata e quindi si sintonizza stabilmente su tale stazione.

Per continuare la ricerca dopo la prima stazione, premere nuovamente il tasto PTY
Se non si sintonizza alcun programma, en è visor appare "NOT FOUND".

Per interrompere la ricerca in qualsiasi momento
Utilizzare un qualsiasi tasto o comando del sintonizzatore per interrompere la ricerca.

Descrizione dei codici PTY
NEWS: Notizie.
AFFAIRS: Notizie.
INFO: Programmi riguardanti servizi medici, previsioni del tempo, ecc.
SPORT: Avvenimenti sportivi.
EDUCATE: Programmi educativi.
DRAMA: Saggi e programmi di cultura regionale o nazionale.
CULTURE: Programmi di cultura regionale o nazionale.
SCIENCE: Programmi di scienze naturali e tecnologiche.
VARIED: Altri programmi come commedie e cerimonie.
POP M: Musica pop.
ROCK M: Musica rock.
M.O.R.M: Musica "Middle of the road" (detta anche "easy listening").
LIGHT M: Musica leggera.
CLASSICS: Musica classica.
OTHER M: Altra musica.
ALARM: Trasmissioni di emergenza.
TRAFFIC: Trasmissioni di annunci sul traffico.
NONE: Non definita (non ricercabile).

Para buscar un programa por códigos PTY
Una de las ventajas del servicio RDS es que usted puede ubicar un tipo particular de programa especificando los códigos PTY.



Para buscar un programa utilizando códigos PTY o TA:
① Prestione una vez al botón PTY mientras escucha una estación de FM.
La indicación en el display alterna entre "PTY" y "SELECT".
② Seleccione el código PTY usando los botones PTY SELECT (←/→) dentro de 10 segundos.
Cada vez que usted presiona el botón, la indicación muestra una categoría en el orden siguiente:
NEWS → AFFAIRS → INFO → SPORT → EDUCATE → DRAMA → CULTURE → SCIENCE → VARIED → POP M → ROCK M → M.O.R.M → LIGHT M → CLASSICS → OTHER M → TRAFFIC → NEWS
③ Prestione otra vez el botón PTY dentro de 10 segundos.
Durante la búsqueda, la indicación cambia entre "SEARCH" y el código PTY seleccionado.
La unidad busca entre las 30 estaciones preseleccionadas y para cuando encuentra una estación de la categoría que usted ha seleccionado, luego sintoniza esa estación.

Para continuar la búsqueda después de la primera parada, presione otra vez el botón PTY
Si no se sintoniza ningún programa, en el visor aparece "NOT FOUND".

Para detener la búsqueda en cualquier momento durante el proceso
El utilizar cualquier uno de los botones de operación del sintonizador y los controles detiene la operación de búsqueda.

Descripción de los códigos PTY
NEWS: Noticias.
AFFAIRS: Noticias.
INFO: Programas sobre temas que afectan las noticias o asuntos actuales.
SPORT: Programas sobre servicios deportivos.
EDUCATE: Programas educativos.
DRAMA: Teatro por radio.
CULTURE: Programas sobre cultura nacional o regional.
SCIENCE: Programas sobre ciencias naturales y tecnología.
VARIED: Otros programas como comedias o ceremonias.
POP M: Música pop.
ROCK M: Música Rock.
M.O.R.M: Música en mitad de la carretera (usualmente llamada "escucha fácil").
LIGHT M: Música ligera.
CLASSICS: Música clásica.
OTHER M: Otras músicas.
ALARM: Radiodifusiones de emergencia.
TRAFFIC: Radiodifusiones sobre anuncios de tráfico.
NONE: Indefinido (esta no puede ser buscada).

5 Set the volume.

6 Regolare del volume.

When the **▶▶▶** button is used to select the volume, the volume level 1 is selected.

Quando si usa il bottone **▶▶▶** per selezionare il livello del volume, il livello 1 viene scelto per scegliere il volume.

This shows when volume level 1 is selected. Esto se visualizará cuando se seleccione el nivel de volumen 1. Indica se il livello di volume 1 è stato scelto.

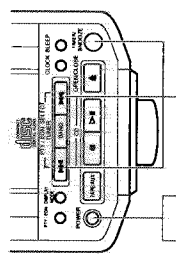
- The unit enters the previously engaged mode and timer setting has been completed.
- La unidad ingresa en el modo previamente activado y el ajuste del temporizador queda completado.
- L'unità entra nel modo precedentemente attivato e l'impostazione del timer è così terminata.

- Se il volume viene regolato su "VOL -" (volume non specificato), il volume di riproduzione via timer viene portato automaticamente al livello di prima dell'attivazione del timer stesso.
- Per controllare l'impostazione del timer
- 1. Ogni volta che il tasto **TIMER/SNOOZE** viene premuto, è possibile controllare l'impostazione del timer.
- 2. Quando il timer precedentemente attivato viene visualizzato, l'impostazione del timer è terminata.
- Note:**
- Quando il timer viene impostato in modo scorretto oppure quando il modo corretto non viene selezionato, eseguire quanto descritto nella sezione "Impostazione del timer" dell'indice.
- Si sa ajusta el volumen en "VOL -" (no se especifica el nivel del volumen), el volumen de la reproducción por temporizador permanece al nivel utilizado antes de ajustar el temporizador.
- Comprobación del ajuste del temporizador
- 1. Cada vez que se presiona el botón **TIMER/SNOOZE**, es posible confirmar el ajuste del temporizador.
- 2. Cuando se activa el modo anterior, el ajuste del temporizador queda completado.
- Note:**
- Cuando se ajusta el temporizador incorrectamente o no se selecciona el modo correcto, eleque el "Ajuste del temporizador" desde el principio.

Riproduzione col timer

La riproduzione col timer di CD o di trasmissioni radiofoniche è possibile.

Operazioni



- 1. Colloca il bottone **POWER** su ON.
- 2. Regolare il timer. (Vedi "Impostazione del timer" a pag. 27).

Source sound Fonte de sonido Fonte sonora	Timer mode Modo de temporizador Modo di funzionamento	Operations Operaciones Operazioni
CD play Reproducción de CD Riproduzione CD	CD CD CD	Load a CD. Còloque un CD. Inserire un CD.
Broadcast Radiodiffusion Trasmisione radio	TUNER TUNER TUNER	Tune to the required station. Sintonice la estación deseada. Mettersi in sintonia la stazione desiderata.

- 3. Switch the power off.
- 3. Spegnere il sistema.

- Para confirmar la hora actual (cuando la alimentación está conectada ON). Presione el tasto **CLOCK**. Cuando el tasto viene premuto nuevamente, el display indica el modo precedentemente activado.
- Prima di eseguire la riproduzione col timer è necessario impostare l'ora esatta.
- Si raccomanda di impostare l'ora esatta col tasto **POWER** su **STANDBY** in modo da conservare il modo di alimentazione corrente.
- Quando il cordone di alimentazione è scollegato dopo essere stato collegato oppure quando l'alimentazione viene riattribuita dopo un'interruzione di corrente, l'indicazione "CLOCK" lampeggia sul display. Impostare nuovamente l'ora esatta.

- Antes de efectuar la reproducción por temporizador, es necesario ajustar la hora actual.
- Se recomienda ajustar la hora actual con el botón **POWER** colocado en **STANDBY** para conservar el modo de indicación actual.
- Cuando se conecta el cordón de alimentación después de haberlo desconectado o cuando vuelve la energía después de un corte de la misma, el "CLOCK" parpadeará en el visor. Ajuste otra vez la hora actual.

FUNZIONAMENTO COL TIMER

- Impostazione del timer
- Prima di poter utilizzare il timer deve essere impostata l'ora esatta.
- 1. Premere il tasto **TIMER/SNOOZE**.

Setting the timer

- The current time must be set before the timer can be used.
- Presione el botón **TIMER/SNOOZE** button.

Within 30 sec.
Dentro de los 30 seg
Entro 30 seconds.

- 2. Adjust the time of start.
- (Example: To set the timer to 12:15.)
- 2. Impostare l'orario di avvio.
- (Esempio: Per impostare il timer sulle 12:15.)

Press to set the start time.

- Presione el botón **TIMER/SNOOZE** button.
- Premere per impostare l'ora di inizio.

- 3. Adjust the stop time.
- (Example: To set the timer stop time to 13:15.)
- 3. Impostare l'orario di arresto.
- (Esempio: Per impostare il timer sulle 13:15.)

Press to set the timer stop time.

- Presione el botón **TIMER/SNOOZE** button.
- Premere per impostare l'ora di spegnimento.

- 4. Select the **TIMER** mode.
- The selected timer mode is shown in the display.
- 4. Selezionare il modo del timer (**TIMER**).
- Il modo del timer scelto viene indicato sul display.

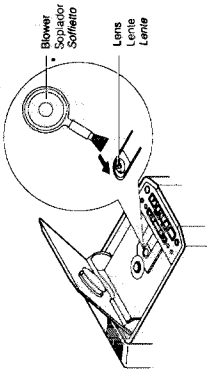
MAINTENANCE



Cleaning the lens

If the lens in the CD pickup is dirty, drop out, etc., could degrade sound. Open the CD holder and clean the lens as shown.

- Use a blower (available from a camera store) to blow dust off the lens.
- If there are fingerprints, etc. on the lens, gently wipe clean with a cotton swab.

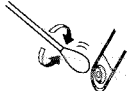


MANUTENIMENTO

La limpieza es importante!

Limpieza de la lente
Si la lente del pickup de CD está sucia, o manchada, etc., puede degradar el sonido. Abra el compartimento del CD y limpie la lente como se muestra.

- Utilice un sopador (disponible en una tienda de cámaras), para quitar el polvo de la lente.
- Si hay huellas digitales, etc. en la lente, limpie suavemente con un isopo de algodón.



MANUTENZIONE

La pulizia è estremamente importante!

Pulizia della lente
Se la lente del pickup del lettore CD è sporca, macchiata, ecc., può degradare il suono. Aprire il vano del CD e pulire la lente come indicato.

- Utilizzare un soffiatore (reperibile in un negozio di materiale fotografico) per soffiare via la polvere dalla lente.
- Se sulla lente vi sono impronte digitali, ecc., pulire con gentilezza utilizzando un bastoncino ovattato.

TROUBLESHOOTING



What appears to be trouble is not always serious. First make sure...

- Power cannot be turned on.
 - Is the power cord connected correctly?
 - Are headphones connected?
- A certain portion of the CD does not play correctly.
 - Is the CD scratched?
- The CD player does not play.
 - Is the CD inside down?
 - Is the CD dirty?
 - A certain portion of the CD does not play correctly.

CD Player Section

- The CD player does not play.
 - Is the CD inside down?
 - Is the CD dirty?
 - A certain portion of the CD does not play correctly.

Tuner Section

- Reception is noisy.
 - Try adjusting the antenna.

Timer Section

- Timer operation does not start.
 - Is the current time set correctly?
 - Is the timer mode indicator (E) displayed?

Remote Control

- Remote control is impossible.
 - Are the batteries in the remote control exhausted?
 - Is the remote sensor section exposed to bright light (direct sunlight, etc.)?

Note:
This unit's display window is backlit using EL (Electroluminescence). EL's high brightness helps you to see the display clearly. However, a very low-level oscillating tone may be produced by EL and heard in a quiet room during night, etc. In this case, press the DIMMER button on the remote control unit; the display window's light is subdued and the tone will not be heard.

DIAGNOSTICA

Lo que parece ser un problema no siempre es grave. Primero asegúrese...

- No es posible conectar la alimentación.
 - ¿Está el cable de conexión de alimentación correctamente conectado?
 - ¿No sale sonido de los altavoces.
 - ¿Están los audífonos conectados?
- A certain portion of the CD does not play correctly.
 - ¿Está el CD rayado?
- The CD player does not play.
 - ¿Está el CD sucio?
 - ¿Está el CD invertido?
 - ¿Una parte del CD no viene reproducida correctamente.
 - ¿El CD se grilla?

Sección del reproductor de CD

- El reproductor de CD no funciona.
 - ¿Está el CD sucio?
 - ¿Está el CD invertido?
 - ¿Una parte del CD no viene reproducida correctamente.
 - ¿El CD se grilla?

Sección del sintonizador

- La recepción es ruidosa.
 - Intente ajustar la antena.

Sección del temporizador

- La operación por temporizador no es activa.
 - ¿Está la hora actual correctamente ajustada?
 - ¿Está el indicador (E) de modo de temporizador indicado?

Controlador remoto

- El controlador remoto no funciona.
 - ¿Están las pilas del controlador remoto agotadas?
 - ¿Está la sección sensor remoto expuesta a una luz brillante (luz solar directa, etc.)?

Note:
El visor de indicación de esta unidad está iluminado por detrás, utilizando EL (electroluminiscencia). EL's alto brillo de EL le ayuda a ver la indicación claramente. Sin embargo, es posible que EL produzca un tono oscilante de muy bajo nivel que puede ser oído en una sala silenciosa durante la noche, etc. En este caso, presione el botón DIMMER del controlador remoto; la luz del visor de indicación se reducirá y el tono dejará de escucharse.

ESPECIFICACIONES

CD player section

- Signal detection system: Compact disc player
- Number of channels: 2 channels
- Frequency response: 20 Hz - 20,000 Hz
- Wow & flutter: Less than measurable limit
- Fluctuation and tremor: 20 Hz - 20,000 Hz
- Relation signal-to-noise: 90 dB

Radio section

- Frequency range: FM 87.5-108 MHz
- Antennas: AM (MW) 522-1,629 kHz (LW) 144-288 kHz
- External antenna terminal for FM (75 Ω)

Speaker section (each unit)

- Speaker: 8 cm x 1
- Impedance: 4 Ω
- Dimensions: 120 (W) x 158 (H) x 186 (D) mm
- Weight: Approx. 1.4 kg (UX-1500R)

General

- Power output: 30 W (15 W + 15 W) at 4 Ω (Max.)
- Input terminals: 20 W (10 W + 10 W) at 4 Ω (10% THD)
- Output terminals: LINE IN (UX) (300 mV/47 kΩ) PHONES (UX) (300 mV/47 kΩ) 0-15 mVch, 32 Ω Matching

Power requirements

- Power consumption: AC 230 V, 50 Hz
- Dimensions: 380 (W) x 161 (H) x 258 (D) mm, including knobs
- Weight: Approx. 5.5 kg (UX-2000R) Approx. 4.5 kg (UX-1500R)

Accessories provided

- Remote control unit (RM-RXU2000R) x 1
- FM/AM/DA (157) batteries x 2 (for remote control)
- FM feeder antenna x 1
- Loop antenna stand x 1
- Speaker cord x 2

Design and specifications are subject to change without notice.

DATI TECNICI

Sección del reproductor de CD

- Sistema de detección de señal: Reproductor de discos compactos
- Número de canales: 2 canales
- Rango de frecuencia: 20 Hz - 20.000 Hz
- Wow & flutter: Menor que el límite medible
- Fluctuación y temblor: 20 Hz - 20.000 Hz
- Relación señal-ruido: 90 dB

Sección de la radio

- Límites de frecuencia: FM 87.5-108 MHz
- Antena: AM (OM) 522-1,629 kHz (LW) 144-288 kHz
- Terminal de antena exterior para FM (75 Ω)

Sección de altavoces (cada unidad)

- Altavoz: 8 cm x 1
- Impedancia: 4 Ω
- Dimensiones: 120 (A) x 158 (Al) x 186 (P) mm
- Peso: Aprox. 1,3 kg (UX-2000R) Aprox. 1,4 kg (UX-1500R)

Generalidad

- Salida de potencia: 30 W (15 W + 15 W) a 4 Ω (máx.)
- Entrada de terminales: 20 W (10 W + 10 W) a 4 Ω (10% THD)
- Salida de terminales: LINE IN (UX) (300 mV/47 kΩ) PHONES (UX) (300 mV/47 kΩ) 0-15 mVch, 32 Ω

Requisitos de alimentación

- Consumo de energía: AC 230 V, 50 Hz
- Dimensiones: 380 (L) x 161 (A) x 258 (P) mm, con botones incluidos
- Peso: Aprox. 5,5 kg (UX-2000R) Aprox. 4,5 kg (UX-1500R)

Accesorios en dotación

- Control remoto (RM-RXU2000R) x 1
- Baterías FM/AM/DA (157) x 2 (para control remoto)
- Antena de alimentación FM x 1
- Soporte para la antena de cuadro x 1
- Cable de altavoz x 2

Diseño y especificaciones sujetos a cambio sin aviso.

UX-2000R/UX-1500R E ULTRA MICRO COMPONENT SYSTEM

- Sección lectora CD: Sistema elevamiento: 2 canales: 20 Hz - 20.000 Hz: 90 dB: Menor que el límite medible
- Sección radio: Gama frecuencia: FM 87.5-108 MHz: AM (MW) 522-1,629 kHz: (LW) 144-288 kHz: Antena ad anillo per AM (MW/LW): Terminal de antena FM externa (75 Ω): 8 cm x 1: 4 Ω: 120 (A) x 158 (Al) x 186 (P) mm: Aprox. 1,3 kg (UX-2000R) Aprox. 1,4 kg (UX-1500R)
- Sección difusores (per cada componente): Altavoz: 8 cm x 1: 4 Ω: 120 (A) x 158 (Al) x 186 (P) mm: Aprox. 1,3 kg (UX-2000R) Aprox. 1,4 kg (UX-1500R)
- General: Potencia en salida: 30 W (15 W + 15 W) a 4 Ω (Máx.)
- Terminales de ingreso: 20 W (10 W + 10 W) a 4 Ω (10% THD)
- Terminales en salida: LINE IN (UX) (300 mV/47 kΩ) PHONES (UX) (300 mV/47 kΩ) 0-15 mVch, 32 Ω
- Impedancia correspondiente: 16 Ω - 1 kΩ
- SPEAKER (Impedancia: 4 Ω - 16 Ω)
- LINE IN (UX) (300 mV/47 kΩ)
- PHONES (Nivel de salida: 300 mV/47 kΩ)
- Impedancia de adaptación: 16 Ω - 1 kΩ
- SPEAKER (Impedancia: 4 Ω - 16 Ω)
- LINE IN (UX) (300 mV/47 kΩ)
- SUBWOOFER OUT
- OPTICAL DIGITAL OUT
- AC 230 V, 50 Hz
- 380 (L) x 161 (A) x 258 (P) mm, con botones incluidos
- Cable de altavoz x 2
- Requisitos de alimentación: 230 V CA, 50 Hz
- Consumo: 30 W (con POWER ON) 3 W (con POWER en STANDBY)
- Dimensiones: 380 (L) x 161 (A) x 258 (P) mm, incluyendo las perillas
- Peso: Aprox. 5,5 kg (UX-2000R) Aprox. 4,5 kg (UX-1500R)
- Accesorios en dotación: Cable de corriente alterna x 1 Unidad de control remoto Philips 188AA (157) x 2 (para el controlador remoto) Antena de alimentación FM x 1 Soporte para la antena de cuadro x 1 Cable de altavoz x 2



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VNN929-251C

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4. Location of Main Parts

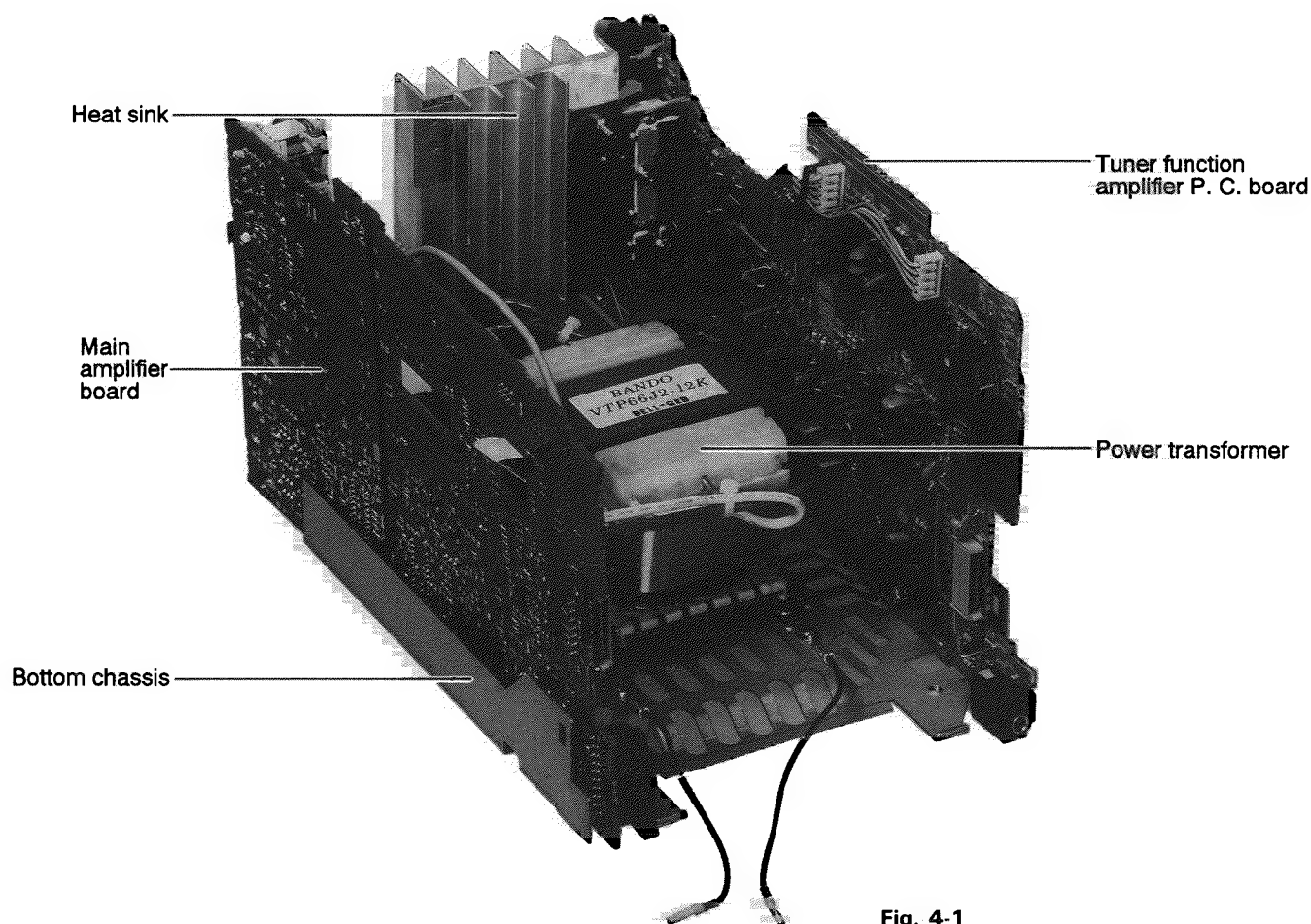


Fig. 4-1

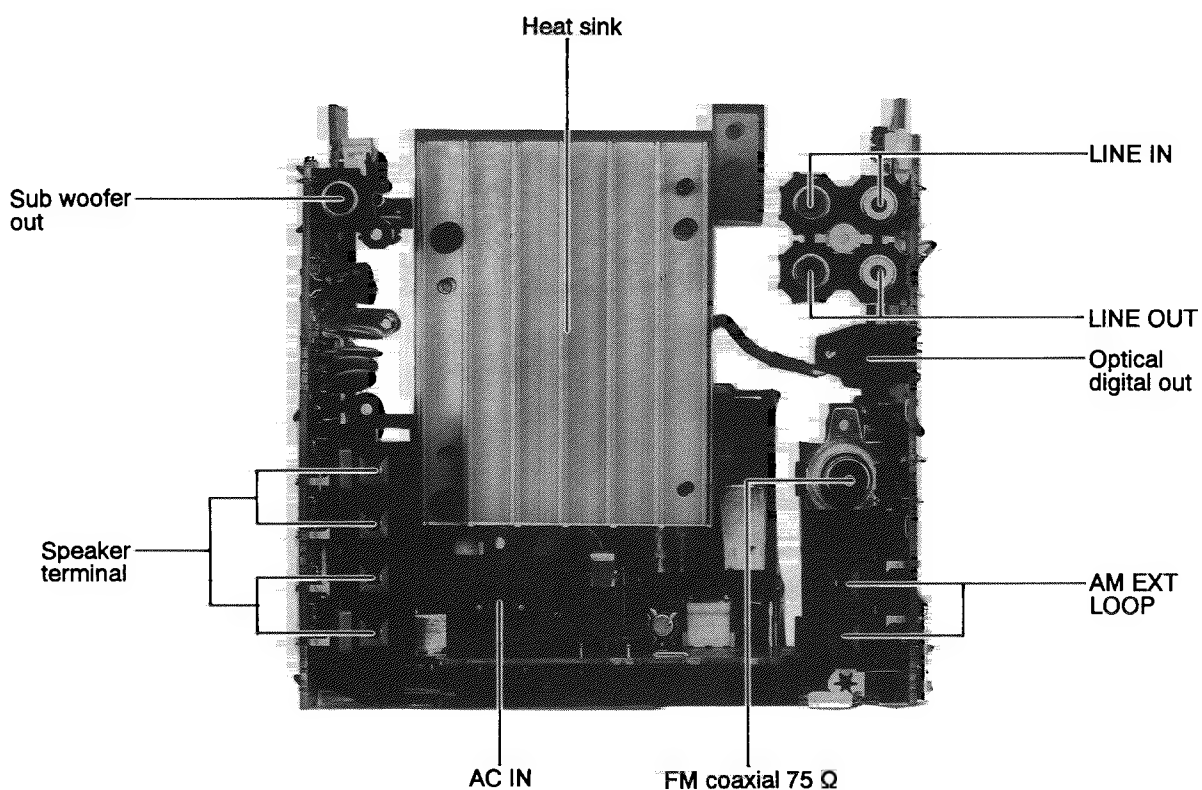
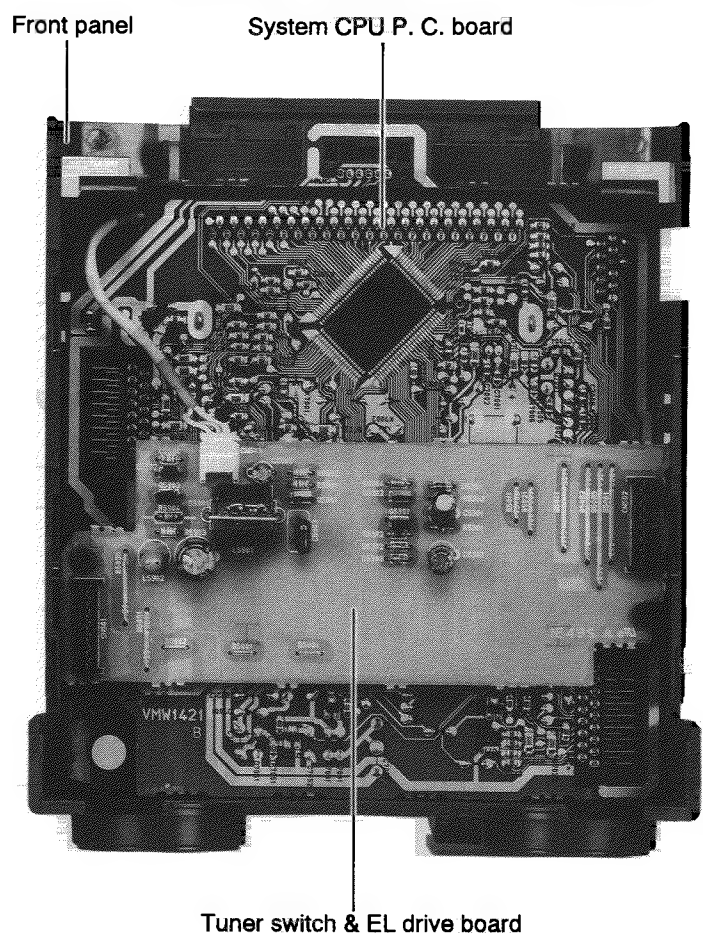
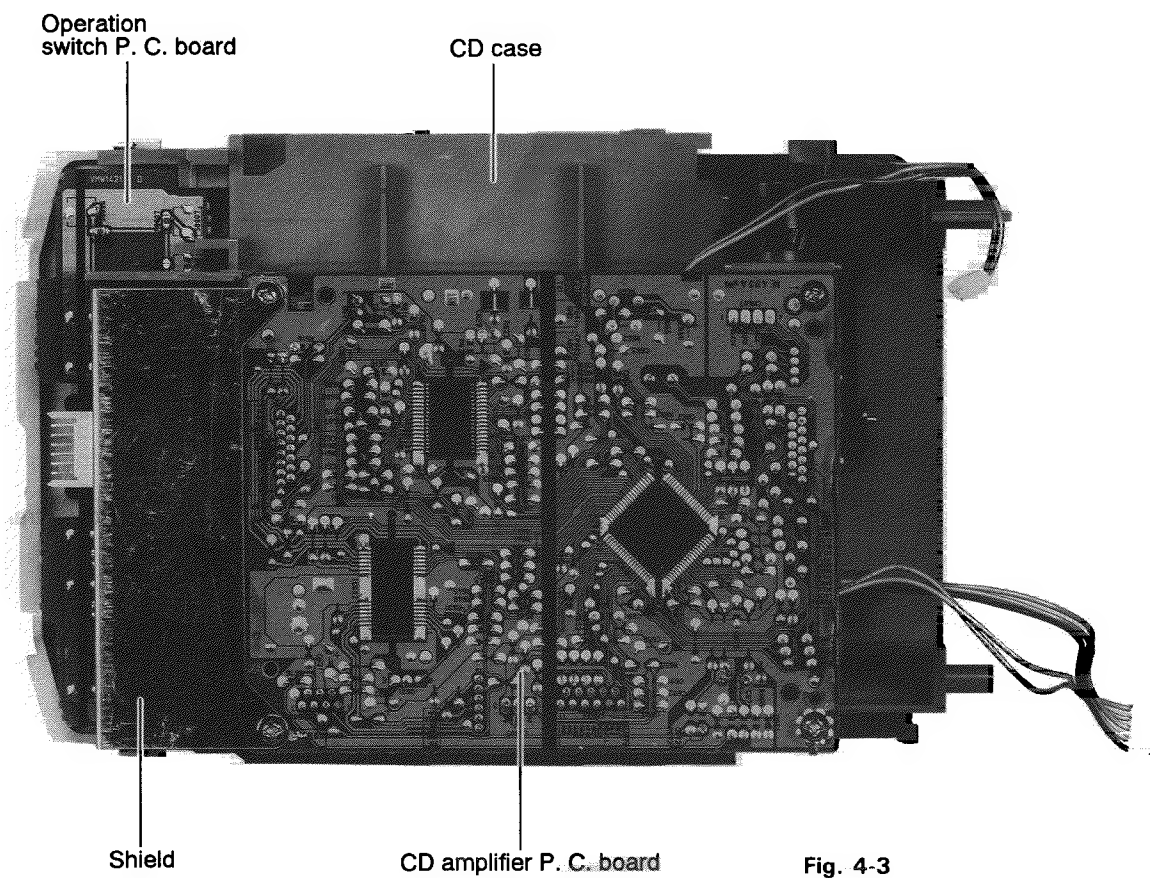


Fig. 4-2



5. Removal of Main Parts

■ Removing the rear cover and side panel (See Figs. 5-1-5-4)

1. • Remove the six screws ① retaining the rear cover from behind the body.
 • From the bottom face of the body, remove the four screws ② retaining the rear cover.
 • After passing the lock pawls at the speaker terminals through the position in Fig. 5-1, remove the rear cover.
2. • Remove the two screws ③ retaining both of the right and left side panels.
 • By moving the side panels (right and left sides) while pulling out the panels toward the rear side, disengage the upper two engagement sections, and dismount the panels while expanding them toward the front side.

※ For assembling (the rear cover and side panels), mount the upper two engagement sections while aligning the same in place at first, and assemble the rear cover and side panels while plugging (the cover and panels) toward the front side.

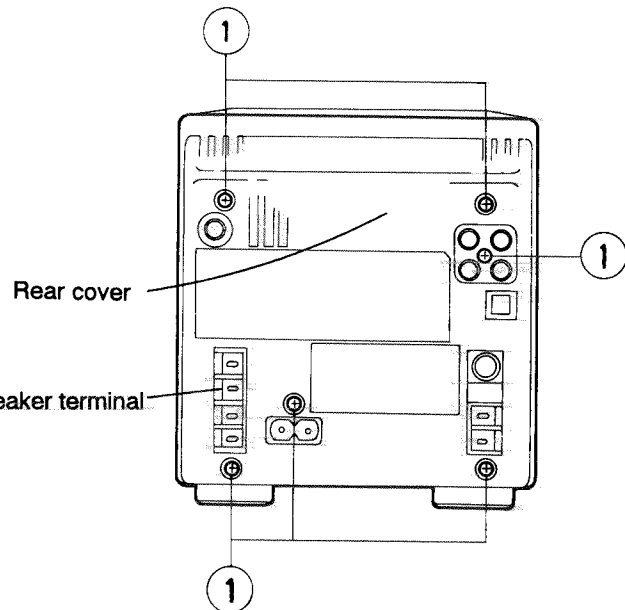


Fig. 5-1

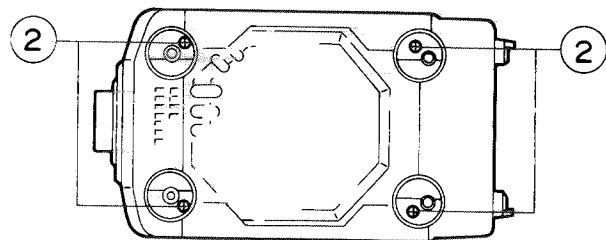


Fig. 5-2

3. The side fitting should be pulled out upward.

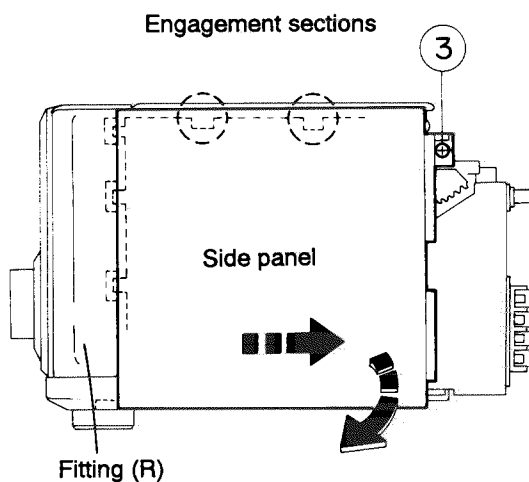


Fig. 5-3

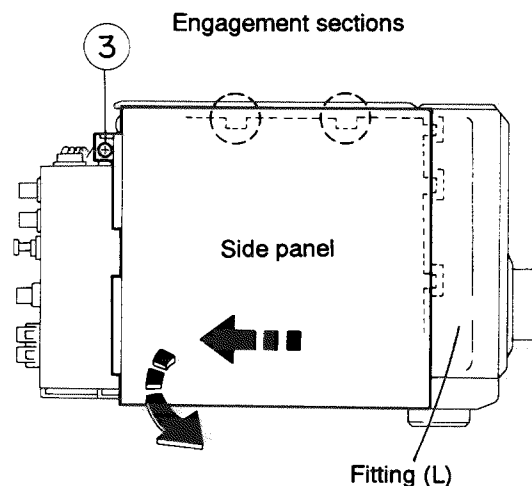


Fig. 5-4

■ Removing the CD player assembly

(See Figs. 5-5-5-7)

1. Remove the rear cover from behind the body.
2. Remove the side panels and fittings (L and R).
3. After removing the three screws ④ from behind the body, dismount the heat sink.
4.
 - From the side of the body, remove the two screws ⑤ retaining the CD player assembly.
 - Remove the one screw ⑥ retaining the tuner function amplifier P.C. board.
 - Remove the connector wires from the connectors CN643 and CN635 on the tuner function amplifier P.C. board, and then remove the card wires connected to the connector CN631 CD amplifier P.C. board.
 - Remove the connector wire from the connector CN301 on the main board.
5. Remove the CD player while pulling it out toward the rear side.

Then, the connector CN801 connected to the connector CN781 on the LCD microcomputer P.C. board of the front assembly will be disconnected at the same time.

※ To ensure easy assembly of the CD player assembly, temporarily remove the tuner function amplifier P.C. board, and after mounting the CD player assembly, assemble the tuner function amplifier P.C. board.

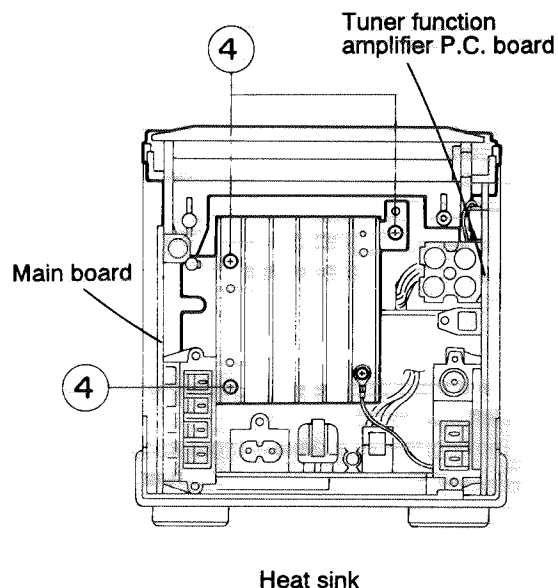


Fig. 5-5

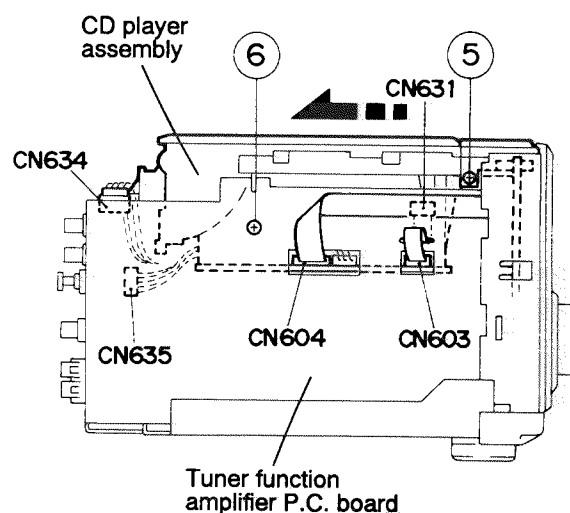


Fig. 5-6

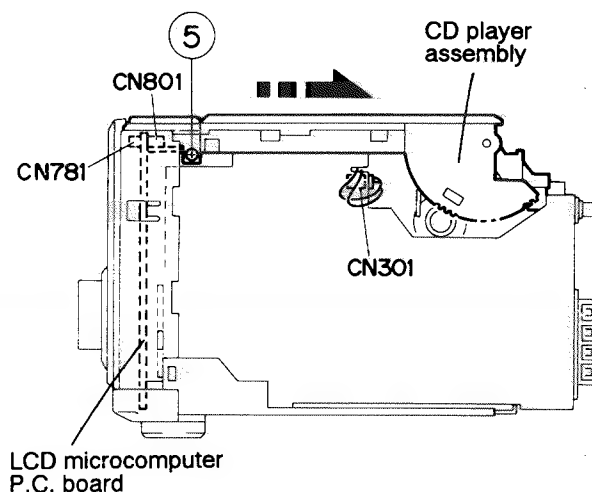


Fig. 5-7

■ Removing the CD player section

(See Figs. 5-8~5-13)

1. Remove the CD player assembly.
2. Removing the CD amplifier assembly
 - Remove the two screws ⑦ retaining the shield.
 - Remove the remaining two screws retaining the CD amplifier P.C. board.
 - Remove the card wire from the connector CN602 on the CD amplifier P.C. board connected to the CD mechanism, and also the card wire from the connector CN601.
3. Removing the CD mechanism assembly
 - Remove the four screws ⑧ retaining the CD motor drive P.C. board.
4. Removing the CD motor drive P.C. board
 - Remove the two screws ⑨ retaining the CD motor drive P.C. board.
 - After disengaging the belt from the motor pulley, remove the CD motor drive P.C. board.
5. Removing the CD door assembly
 - Disengage the two engagement sections on both the right and left sides of the CD door while expanding the sections outward.
6. Removing the operation switch P.C. board
 - Remove the top panel while expanding the right and left side pawls outward.
 - Remove the operation switch P.C. board upward.

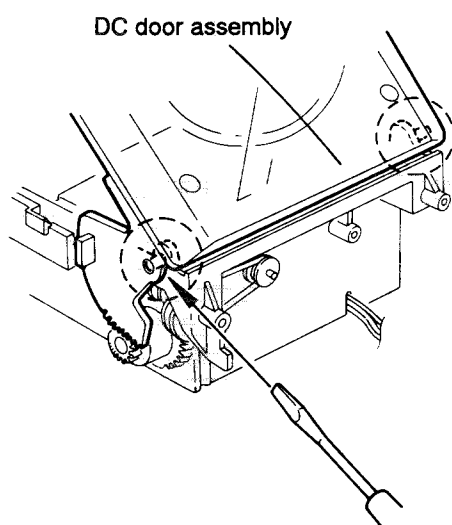


Fig. 5-10

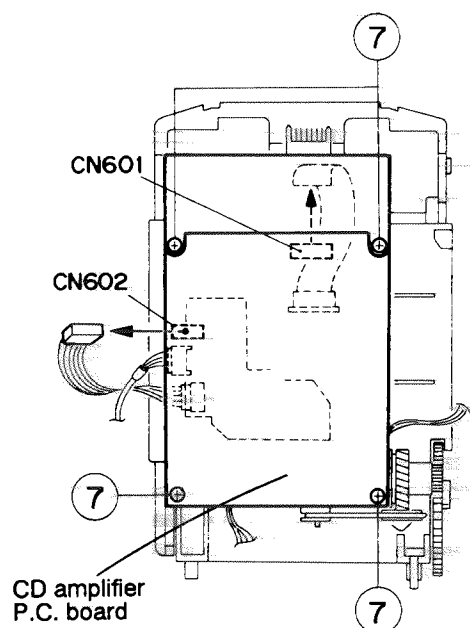


Fig. 5-8

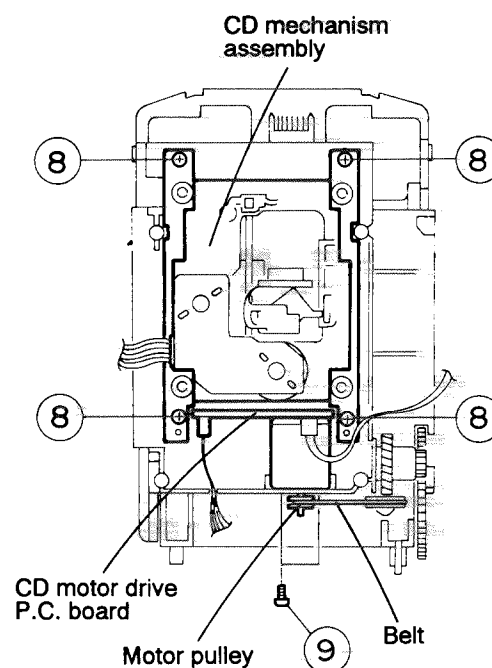


Fig. 5-9

■ Removing the tuner function amplifier P.C. board (See Figs. 5-14-5-16)

- Remove the connectors CN633 and CN632 on the tuner function amplifier P.C. board by pulling them out respectively from the front assembly.
- Remove the card wire from the post pin W6001 on the tuner function amplifier P.C. board.

■ Removing the main board

1. Remove the earth wire from the post pin CN531 on the main board.
2. Disconnect the main connector CN300 on the main board connected to the power supply P.C. board while expanding the main board outward.
3. Disconnect the connectors CN302 and CN303 on the main board toward the rear side by pulling the connectors out from the front assembly.

■ Removing the power supply P.C. board

1. After removing the two screws ⑩, disconnect the connector CN903 on the power supply P.C. board connected to the main board.
2. From the connectors CN902 and CN901, remove the connector wires outgoing from the power supply transformer.
3. While disengaging the power supply P.C. board and holder engagement, remove the power supply P.C. board.

■ Removing the power supply transformer assembly

- Removing the four screws ⑪. From the connectors CN902 and CN901 on the power supply P.C. board, remove the connector wire connected to the power supply P.C. board.

※ For assembly, position the primary side upward, and perform assembly of the respective parts.

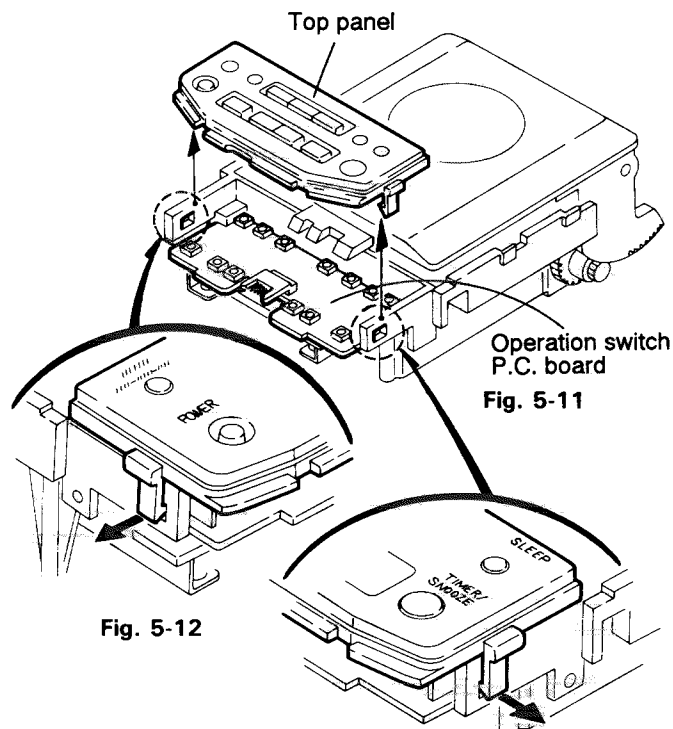


Fig. 5-12

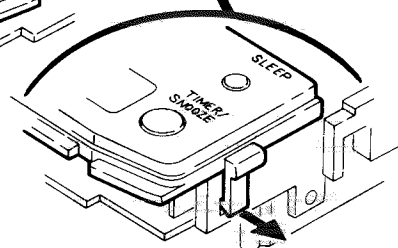


Fig. 5-13

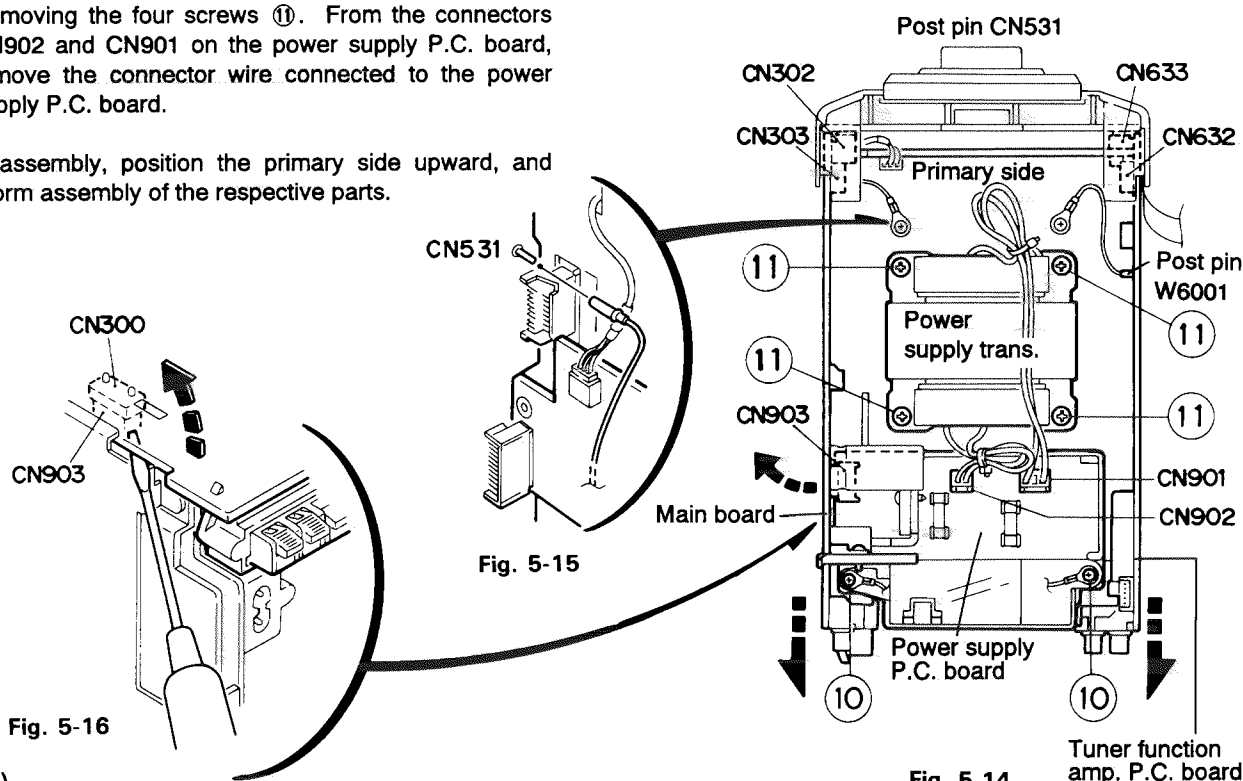


Fig. 5-15

Fig. 5-14

Tuner function
amp. P.C. board

Fig. 5-16

■ Removing the front assembly

(See Figs. 5-17~5-19)

1. Remove the rear cover from behind the body.
2. Dismount the CD player assembly.
3. Remove the side panels and fittings (L and R).
4. After removing the knob from the front face of the body and two screws ⑫, dismount the volume escussion.
5. By using a driver and other tool, remove the two pawls provided on both the right and left sides for engaging the front assembly and bottom chassis.
6. After removing the front panel assembly toward the front side, disconnect the connector CN781 on the LCD microcomputer P.C. board from the CD player assembly at the same time.

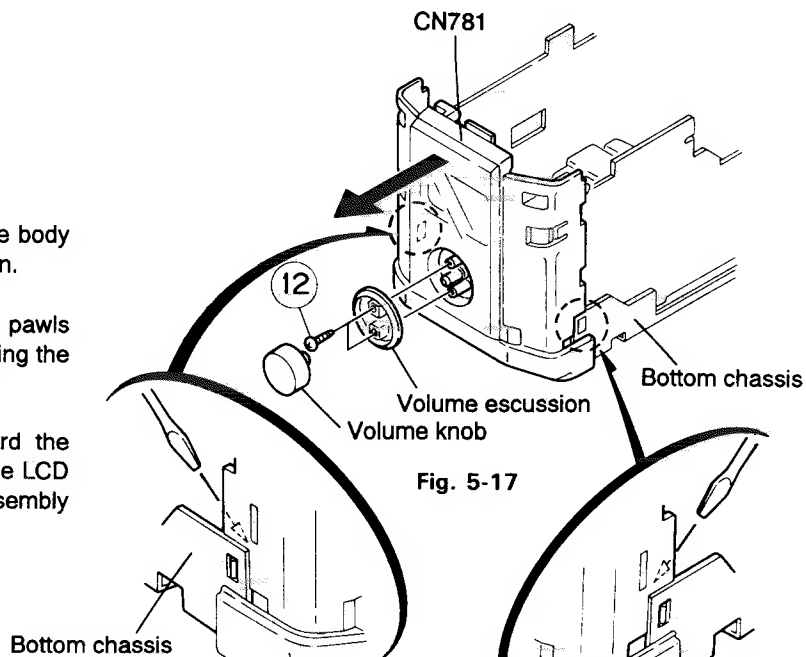


Fig. 5-17

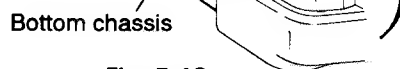


Fig. 5-18

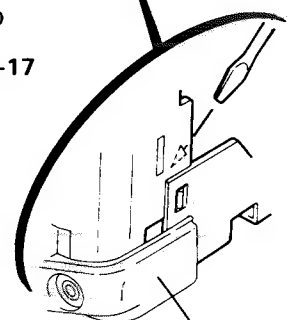


Fig. 5-19

■ **Removing the tuner switch EL driver P.C. board and microcomputer P.C. board** (See Figs. 5-20 and 5-21)

1. • While expanding the engagement sections (a) and (b) with the front cabinet, remove the tuner switch EL driver P.C. board.
 • Remove the connector wire from the connector CN503 connected to the LCD microcomputer P.C. board.
2. • Remove the one screws (13).
 • While expanding the engagement sections (c) and (d) with the front cabinet to outside, remove the LCD microcomputer assembly.

● **Assembly method**

1. Insert the power supply P.C. board into the engagement section of the power supply P.C. board holder, assemble the power supply P.C. board on the bottom chassis together with the power supply P.C. board holder.
2. Subsequent to mounting the power supply transformer, the secondary side connector wire outgoing from the power supply transformer and the primary side connector wire on the power supply P.C. board should be connected respectively to the connectors CN902 and CN901 on the power supply P.C. board.
3. Connect the connector CN300 on the main board to CN903 on the power supply board, and assemble the main board on the bottom chassis.
4. Engage the front assembly exactly to the pawl at the engagement section of the bottom chassis, and connect the connectors CN302 and CN303 on the the main board respectively to the connector CN711 on the LCD microcomputer P.C. board of the front assembly and the connector CN501 on the tuner switch EL driver P.C. board.
5. Assemble the CD player assembly while plugging the connector CN801 on the operation switch P.C. board of the CD player assembly to the connector CN781 on the LCD microcomputer P.C. board of the front assembly.
6. Plug in the connectors CN633 and CN632 on the tuner function amplifier P.C. board to the connector CN502 on the tuner switch EL driver P.C. board of the front assembly and CN761 on the LCD microcomputer P.C. board.

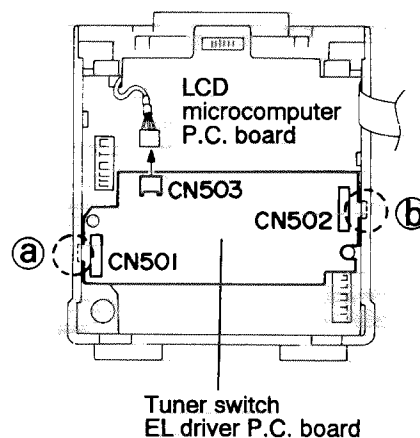


Fig. 5-20

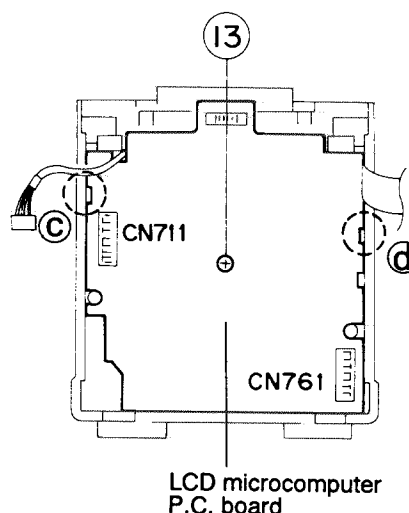


Fig. 5-21

6. Main Adjustments

■ Test Instruments required for adjustment

1. Low frequency oscillator
(Frequency range: 50Hz to 20kHz)
(Output : 0 dBs across 600 Ω terminating resistor)
2. Attenuator(Impedance : 600 Ω)
3. Test disc : CTS – 1000(Audio)
: CTS – 1000 & CRG – 1211S(Optical Control)
4. Extension cord : EXTUX1000 – JIG
5. Electronic voltmeter
6. Distortion meter
7. Jitter meter : NJM631
8. TE offset meter : LTM9055

■ Measuring conditions (Amplifier section)

Supply voltage AC230V (50Hz)

Reference output level :Speaker
0 dBs (0.775V) / 4 Ω
: Headphone
– 10dBs (0.245V) / 32 Ω
:Line out
300mV(– 8.2dBs) / 47k Ω

Standard test frequency
: 1kHz unless otherwise specified

Reference input levelAUX – 8dBs

Output for measuring, unless otherwise specified
: at speaker terminal J3003(Dummy load :4 Ω)

Posture of test..... Horizontal

● Standard position of function switches

Function switchto AUX
Active hyper – bass prop switch to off

● Standard position of volume control

Bass treble to center / flat position
Main volume adjust 0 dBs output position

● Test remarks

1. Negative side of the input and output terminals of the testing set, shall be isolated from each other. The negative side should not be commonly connect ed when a 2channel electronic voltmeter is connected.
2. A dummy load shall be connected to the output

terminal and the lead wires of dummy load shall be as thick as possible.

■ Measuring condition (Tuner section)

Rating source DC 12V

Power source to tuner : DC5.3V

Ference output..... Speaker : 60mW(0.49 V / 4 Ω)

Headphone : 0.066mV / 32 Ω

AM modulation 400Hz, 30%

FM modulation400Hz deviation 22.5kHz

● Standard position of switches and controllers

Function switchto RADIO

Mode switchto STEREO

Bass0 center position

Treble0 center position

Active hyper – bass prop switch.....to off

● Tuner input position

LW / MW : Standard loop antenna

FM : Hot TP1(Extention terminal)

: GND TP2 Extention terminal)

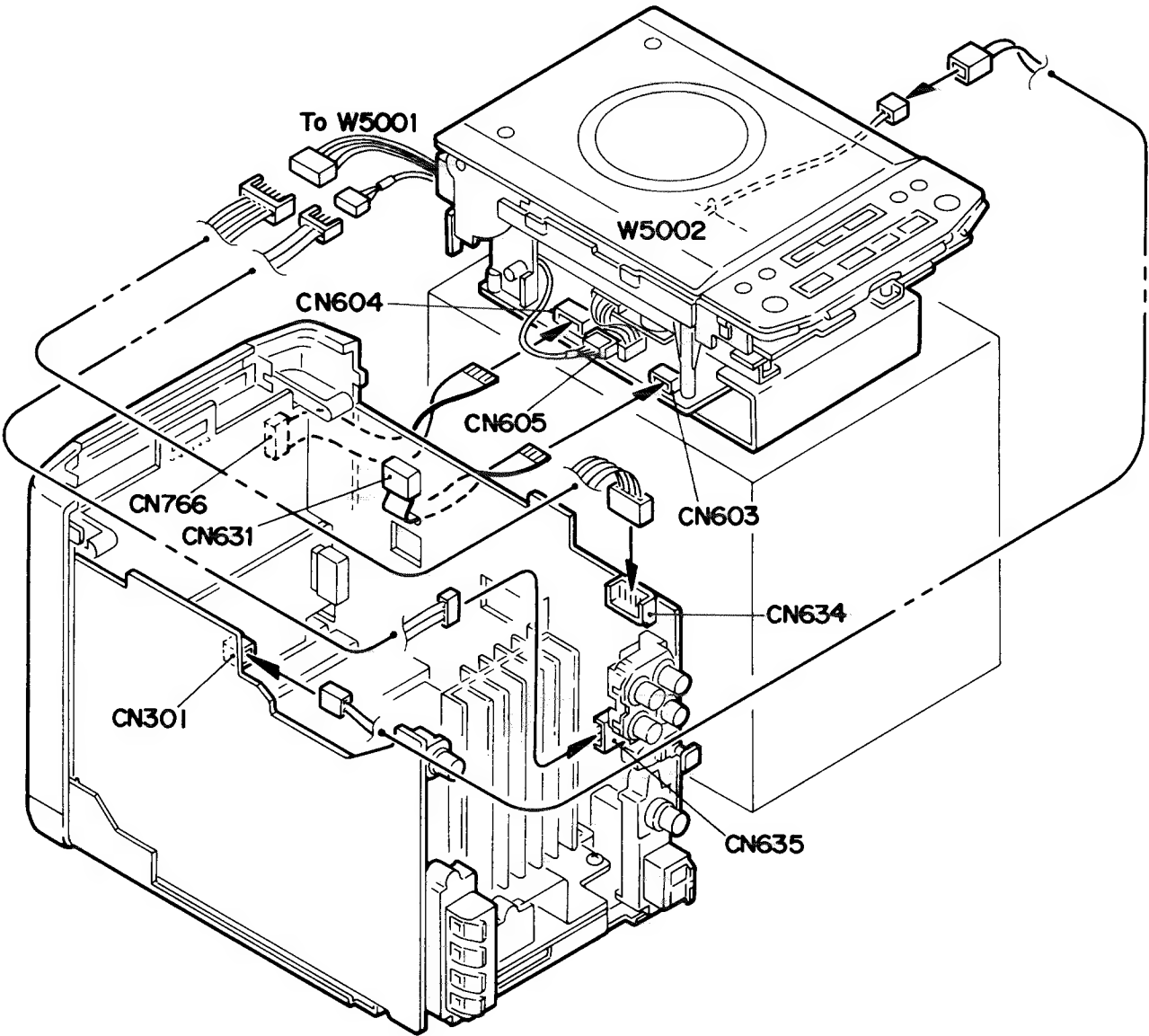
● Arrangment of loop antenna

When measuring keep the loop antenna away from the set more than 20cm .In case a test item is affected by small noise (Ex. Quieting sensitivity more than 30cm is necessary.)

● Remarks for alignment

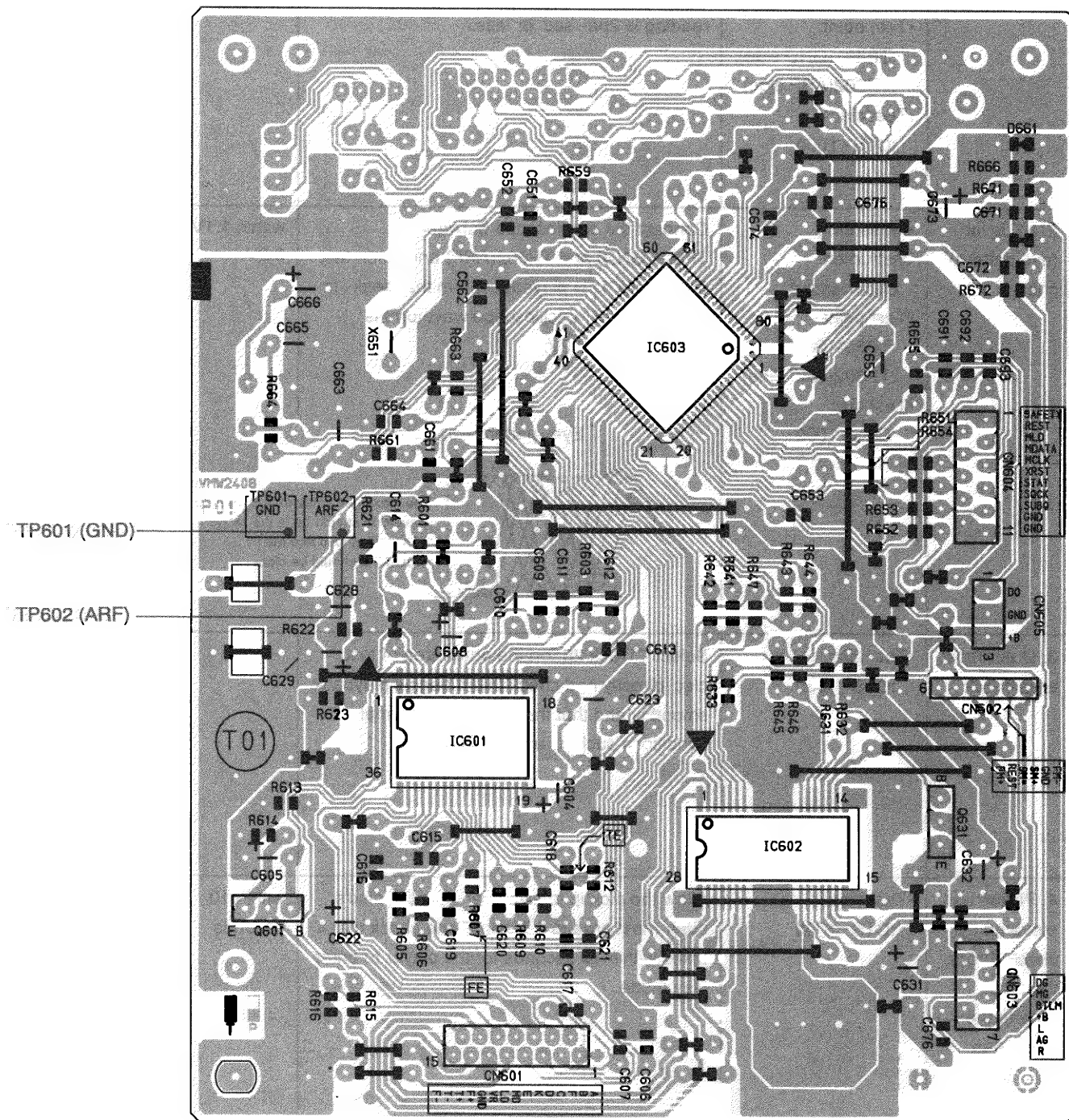
1. Connect 30 pF capacitor and 33 k Ω resistor to the output terminal of the IF sweeper in series while 0.082 μ F capacitor and 100k Ω resistor to the input terminal in series.
- 2.Set the output level of the IF sweeper as low as adjustable.
- 3.IF alignment is not necessary for both AM and FM MPX alignment is not necessary either. All IFTs and MPX coil are non – adjusting type.

■ How to Connect the Extention Cord (EXTUX1000- JIG)

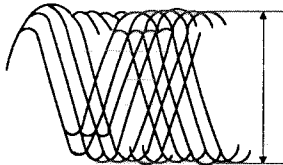


■ Arrangement Checking Test Point

(CD Amplifier board)



■ CD section

Items	Conditions	Adjustment and Confirmation procedure	Standard Value	Adjusting
1. Jitter check	<ul style="list-style-type: none"> •Measuring instrument : Jitter meter •Test point :TP601(GND side) :TP602(ARF side) •Test disc :CTS-1000 	Connect the jitter meter between TP601(GND) and TP602(ARF) and when test disc (track 1) is played, confirm that the meter reading is 26n-sec or less.	26n-sec or less	—
2. RF level (eye pattern) check	<ul style="list-style-type: none"> •Measuring instrument :Oscilloscope •Test point :TP601(GND side) :TP602(ARF side) •Test disc :CTS-1000 	<p>Connect the oscilloscope between TP601(GND) and TP602(ARF) and when test disc (track 1) is played, confirm that peak-to-peak value of oscilloscope waveform is within $1.1V \pm 0.2V$.</p> <p>Eye-pattern waveform</p>  <p>The maximum value of this waveform should be in the range of specifications and the waveform should be clear.</p>	within $1.1V \pm 0.2V$.	—
3. Outer most area check	<ul style="list-style-type: none"> •Test disc :CTS-1000 	Select "Track 26" on the outer area of test disc directly and check that it begins playback smoothly and that there are no abnormal conditions such as a tracking error.		—
4. Pickup unit movement check (From the outer area to the inner area)	<ul style="list-style-type: none"> •Test disc :CTS-1000 	Allow the pickup to skip over from the disc's outer most area to "Track 1" and check that it takes within 10 seconds for the player to enter play mode.	within 10 seconds	—

7. Troubleshooting

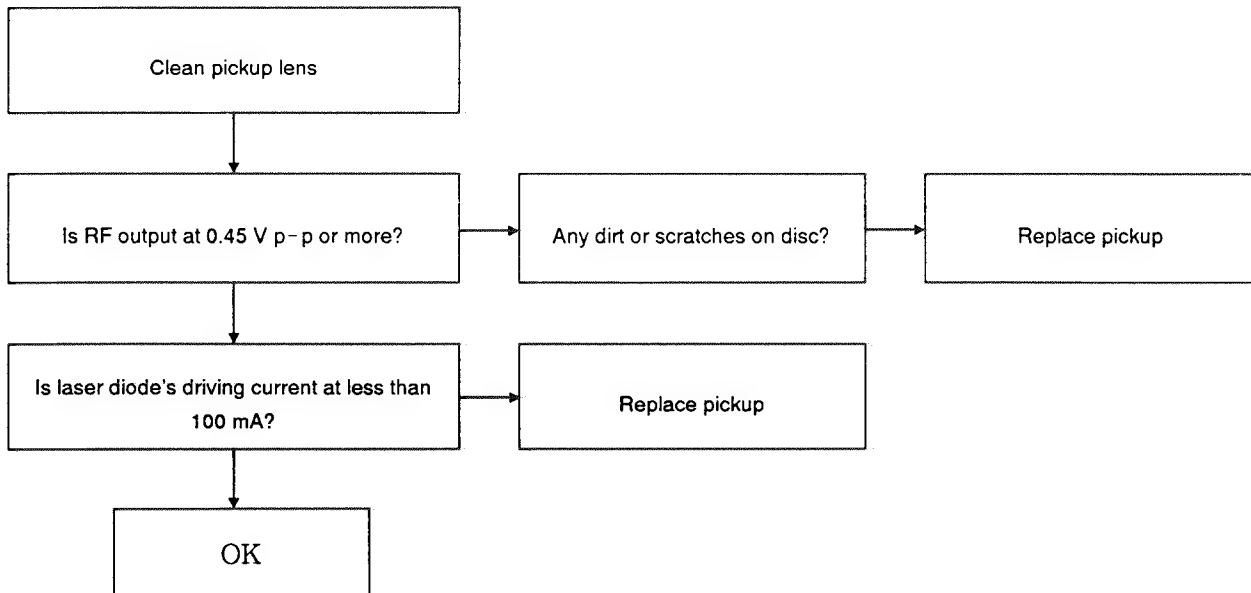
■ Pickup maintenance

(1) Checking the service life of laser diode

If a laser diode reaches the end of its service life, the following phenomena will show up. Similar symptoms may also appear when the pickup lens becomes too dirty. In this case, clean the lens.

- 1) The RF output (between IC601 ⑦ and ⑱ (GND)) lowers.
- 2) The driving current, necessary for the laser diode to emit lights, increases. (Calculate from the voltage level at both ends of the R614 at 10 Ω .)

◆ Following the flow chart shown below, check the service life.



◆ How to measure laser diode's driving current

After connecting a voltmeter at both ends of the R614(10 Ω), measure the voltage during playback. If the voltage level is at 1.0 V or more, the service life of the laser diode has expired.

Laser diode's driving current (A)

= Voltage level at both ends of R614 (V)/10 (Ω)

When voltage level is at 1.0 V:

1.0 V/10 Ω = 0.1 A = 100 mA

Note:

The laser diode easily breaks down. Be sure to turn the power off before connecting a voltmeter.

◆ HOW TO OPERATE THE CD SELF - DIAGNOSIS FUNCTION

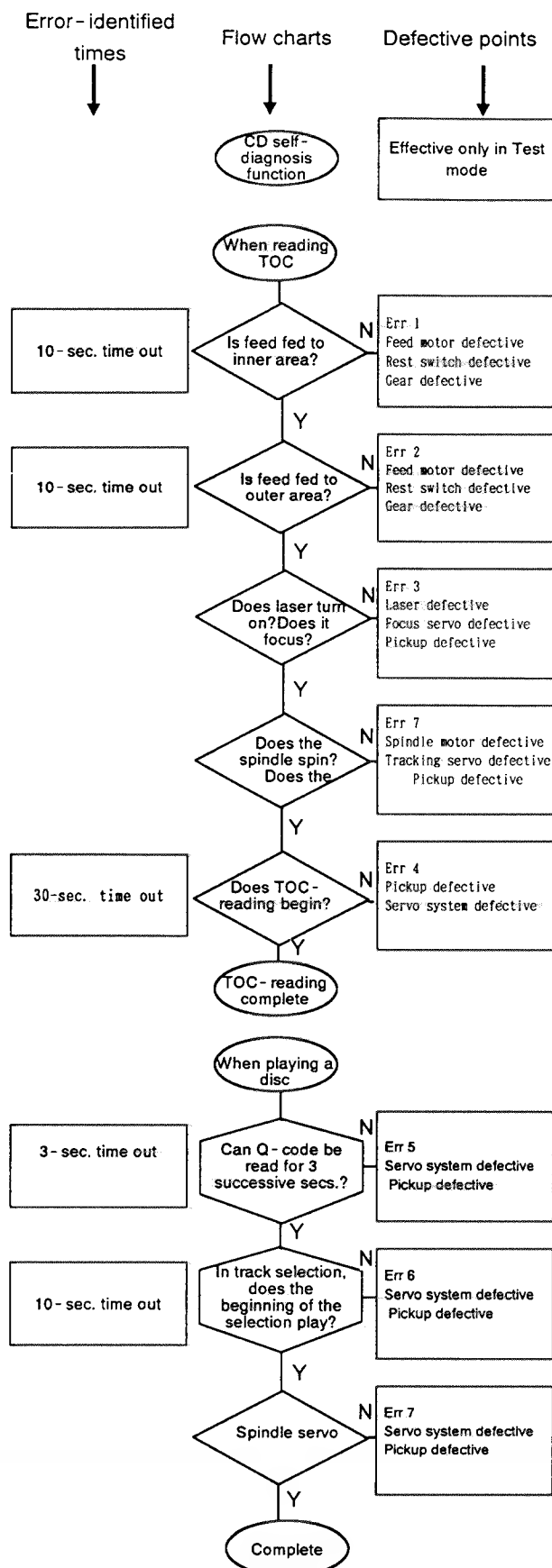
◆ The CD Self - diagnosis Function

If any malfunction occurs in the CD player, this system can be set to make an error code indication appear on the LCD to point out the defective parts. This efficiently helps service personnel find the causes of the malfunction.

1. Operation

- 1 Press the three **■/CLEAR**, **+10** and **POWER** buttons on the remote control to enter the Test mode. (Then the illuminating portions of the LCD all light up together. This indicates that the system has entered the Test mode.)
- 2 Play a CD. If the operation is defective in any way, an error code should appear on the LCD.
- 3 Identify the point of malfunction in accordance with the error code displayed.

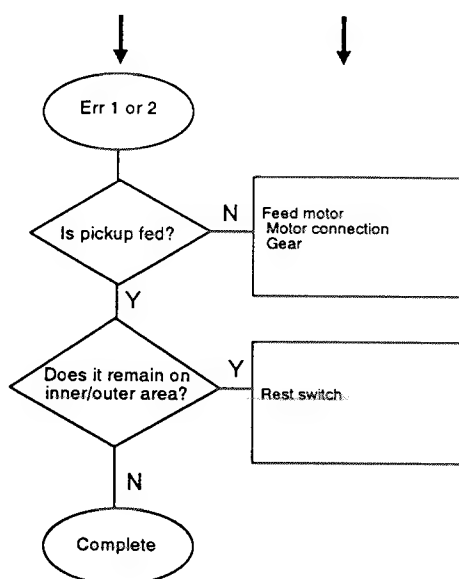
2. Error codes & defective points



Error - identified times
↓

Flow charts
↓

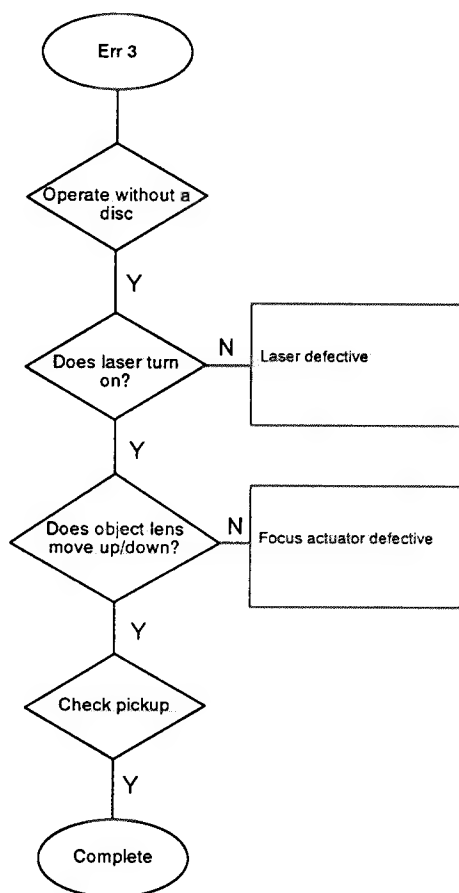
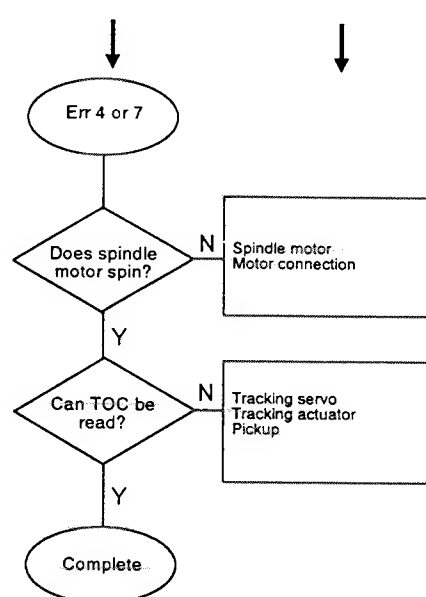
Defective points
↓



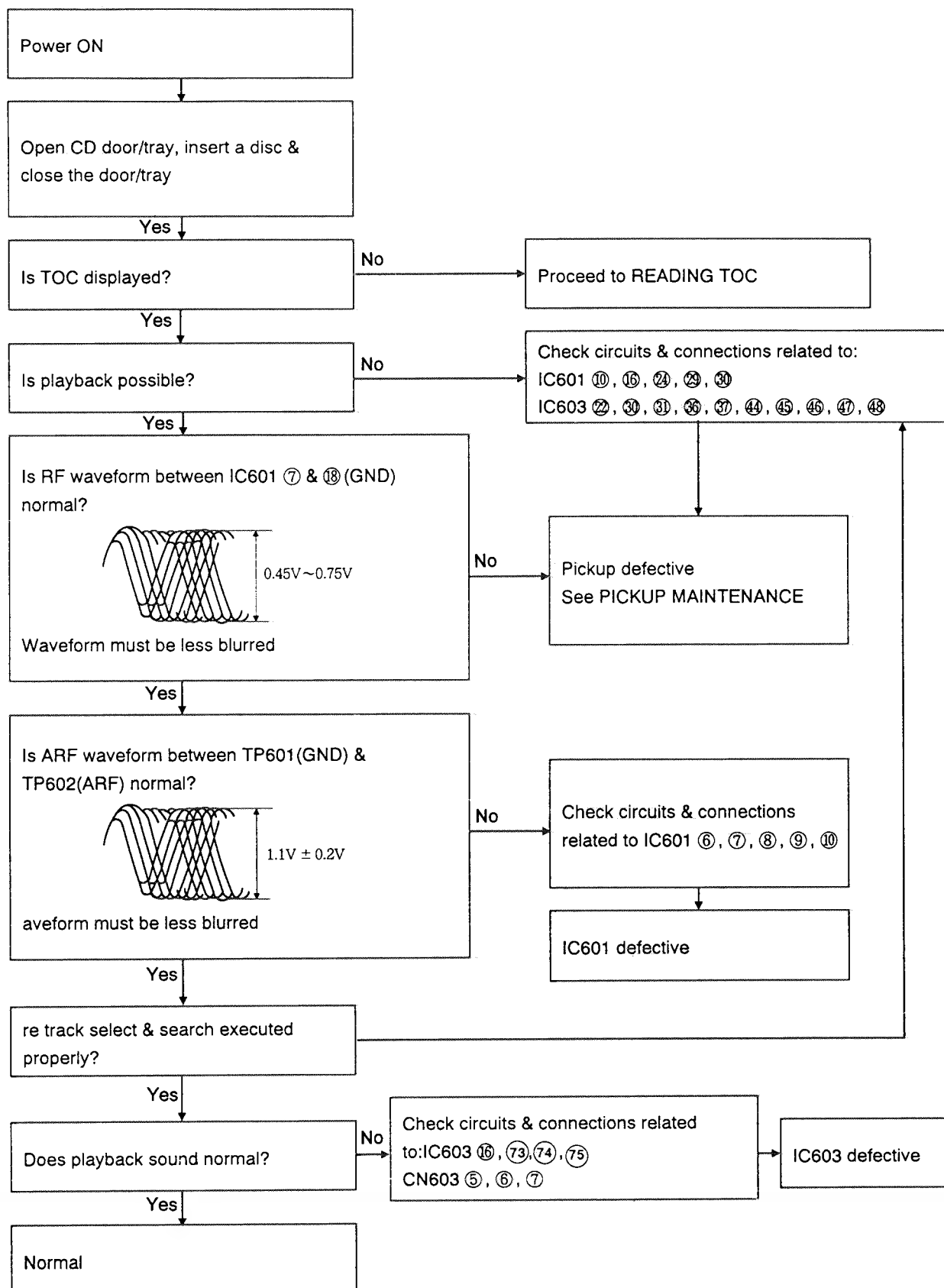
Error-identified times
↓

Flow charts
↓

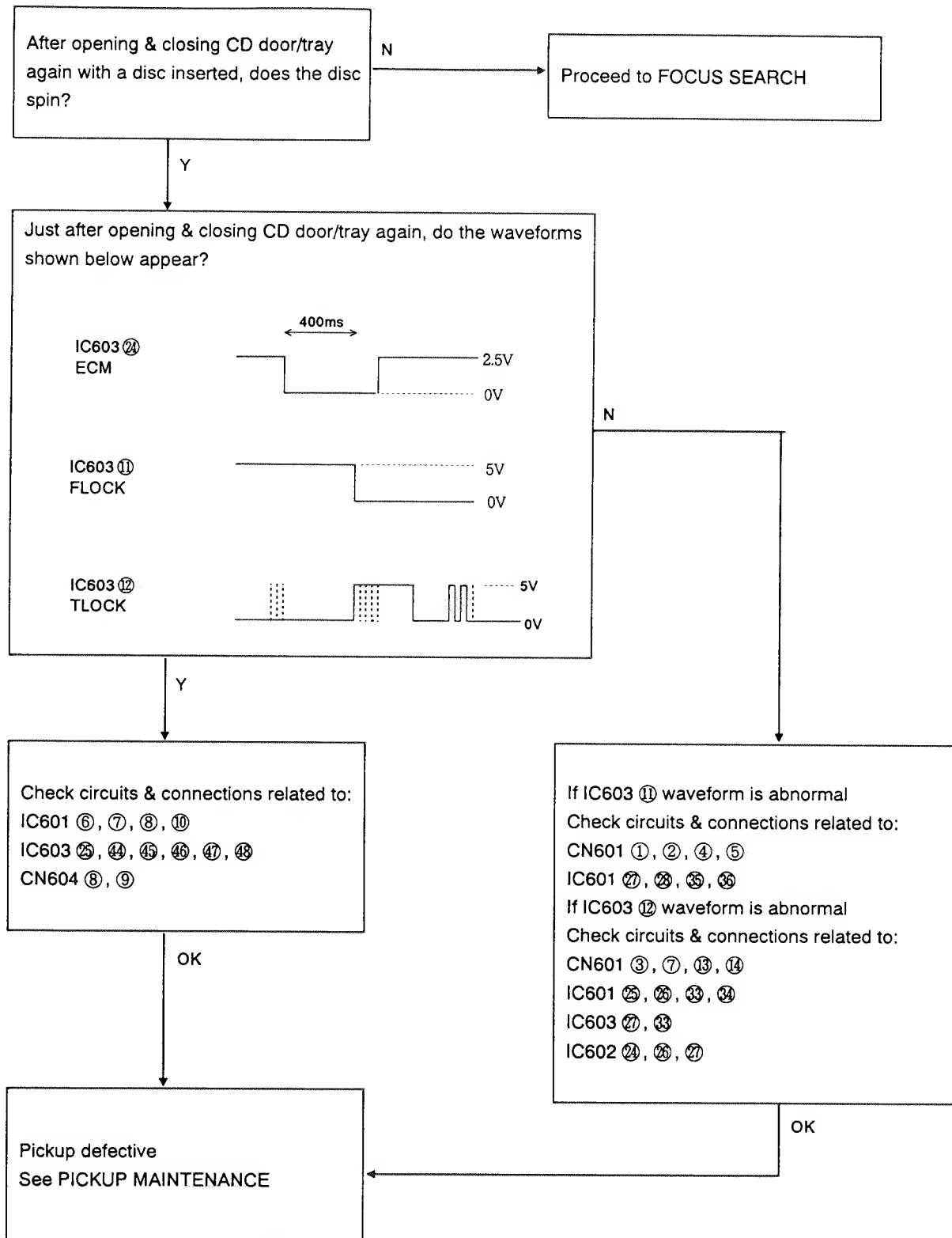
Defective points
↓



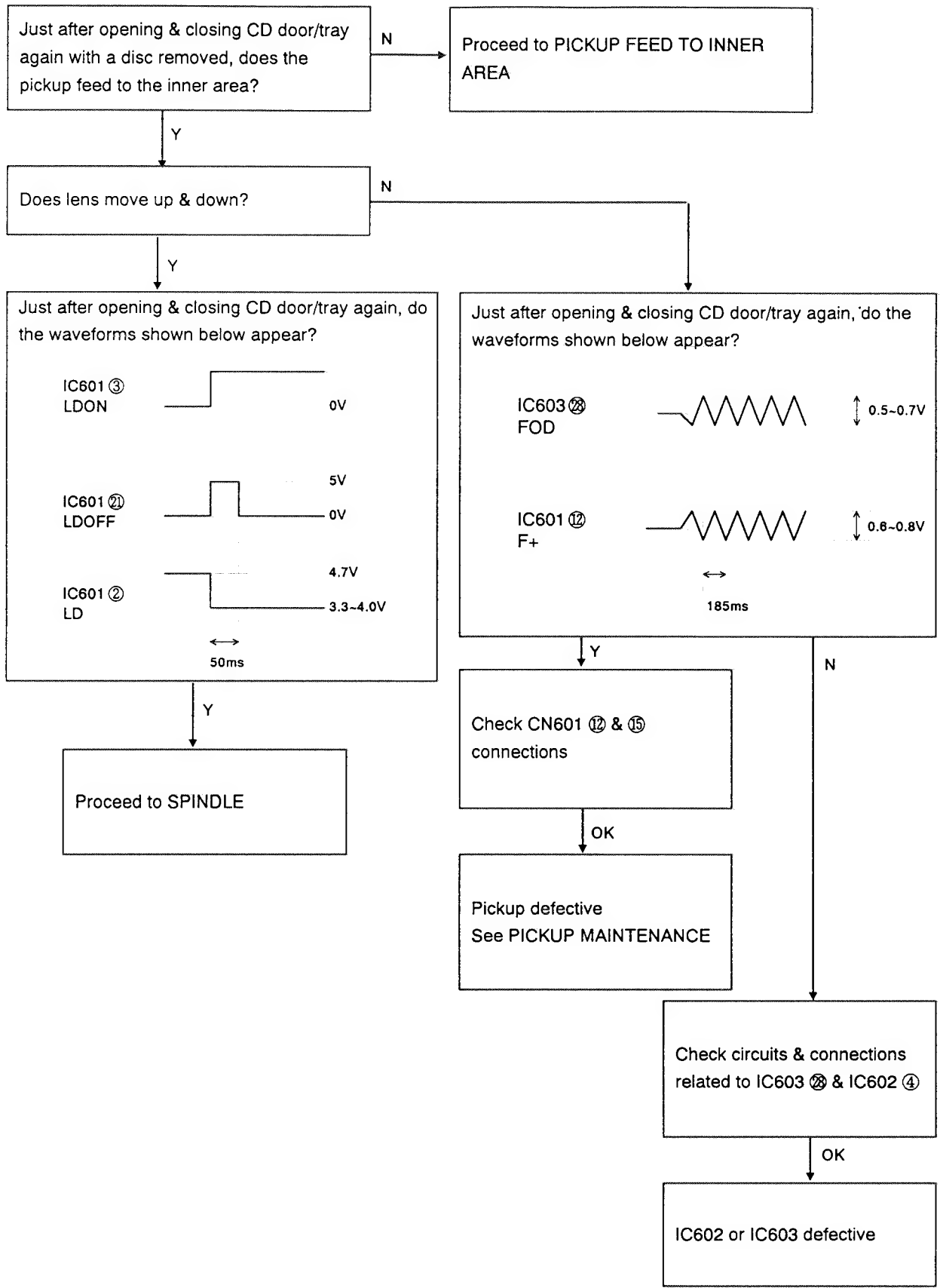
◆ General



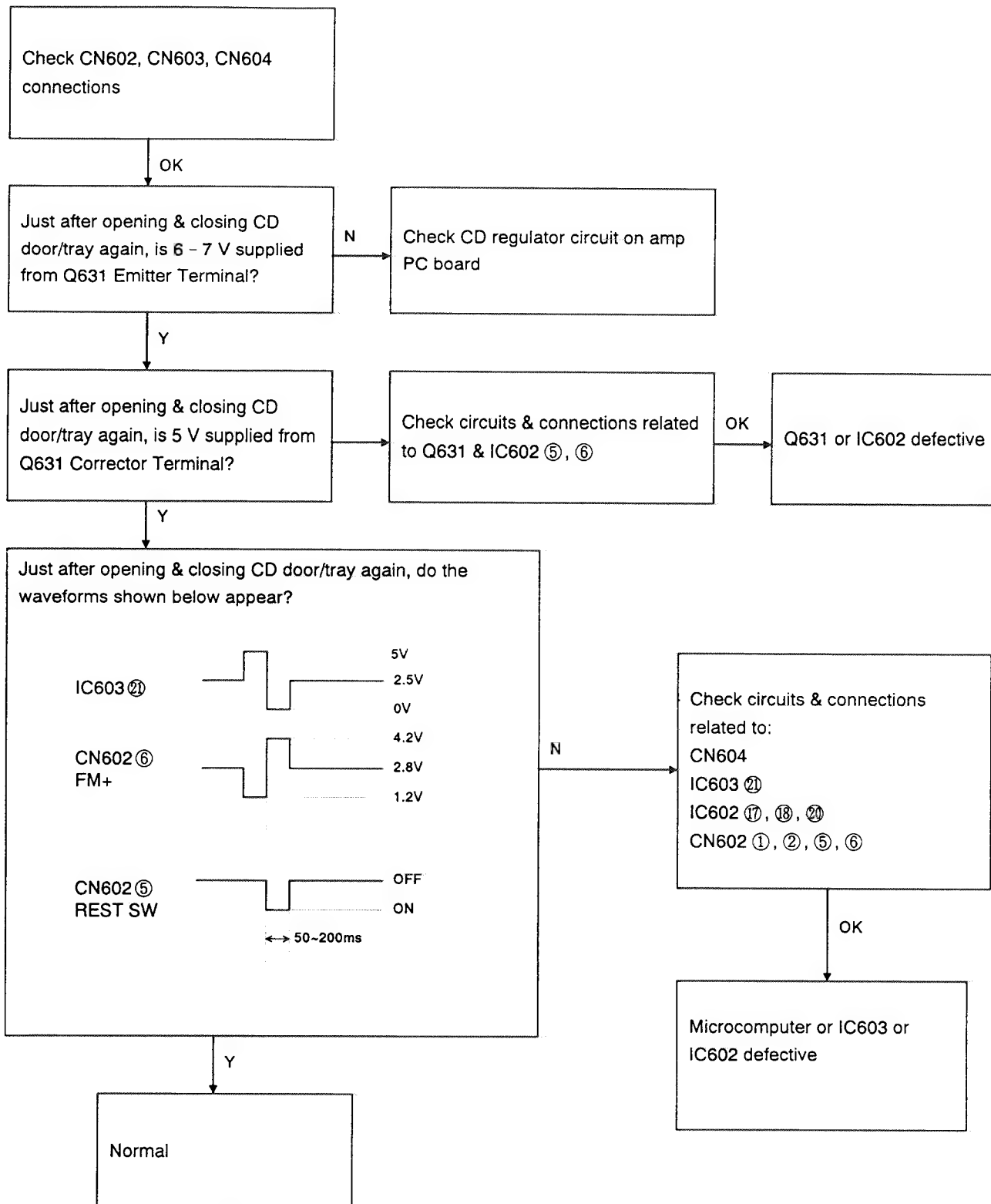
◆ Reading TOC



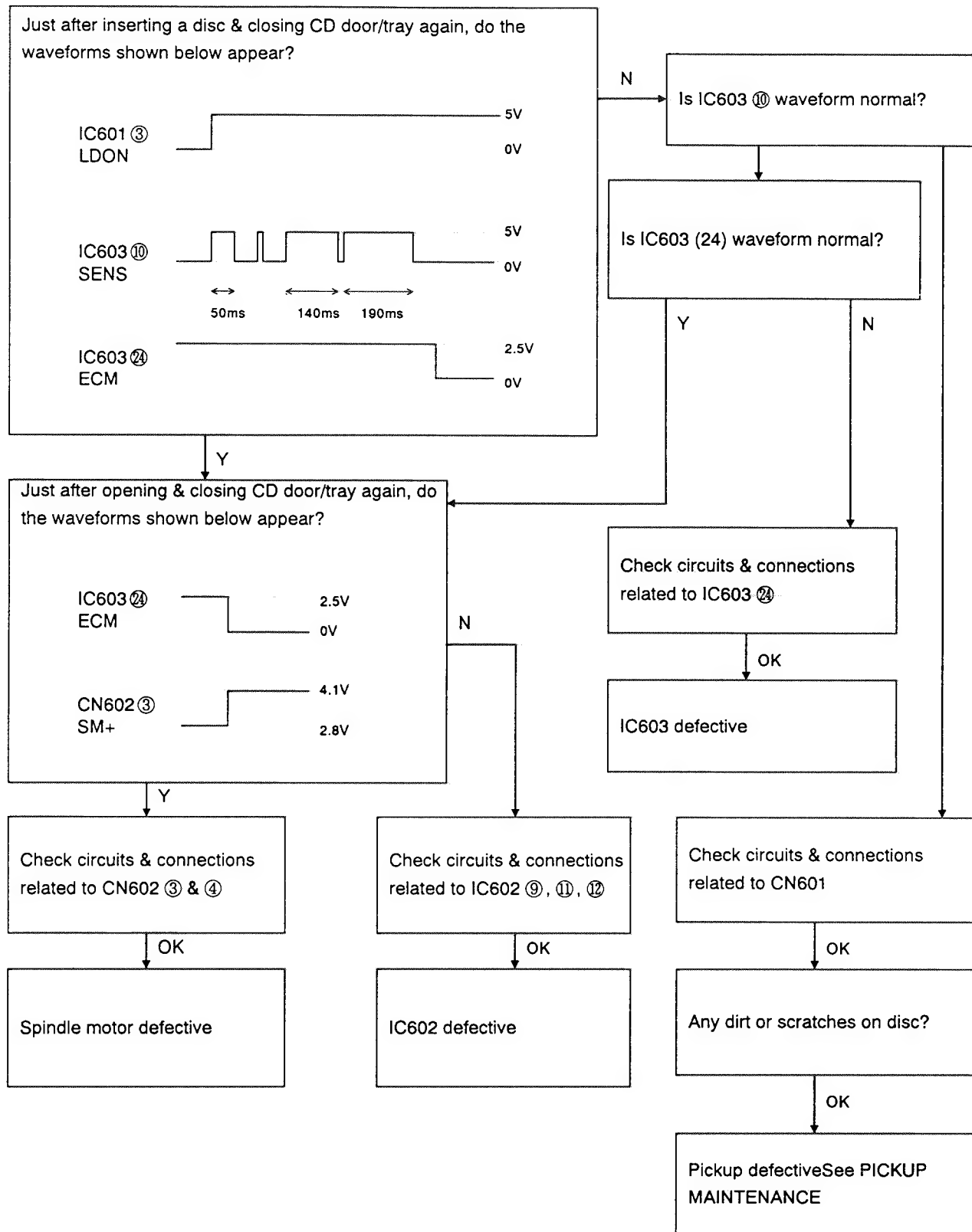
◆ Focus search



◆ Pickup feed to inner area



◆ Spindle



8. Main IC Block Diagram

■ Integrated circuit diagram

■ IC2 (LC72136) PLL

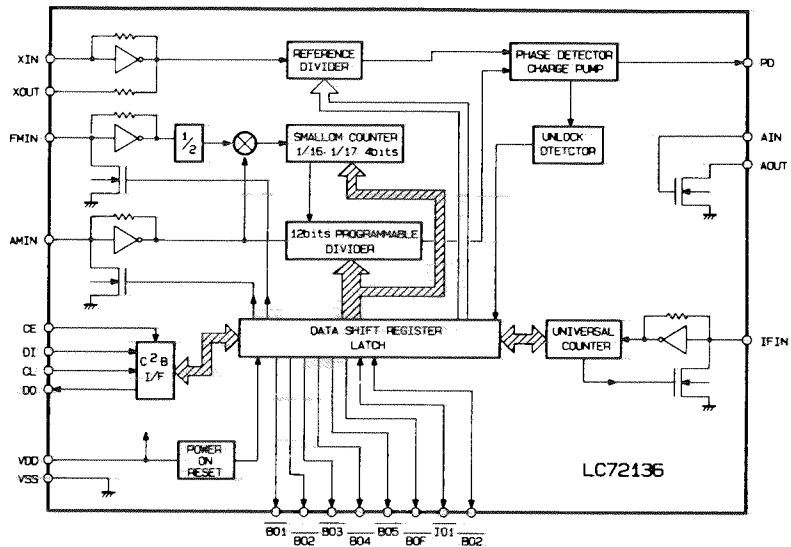
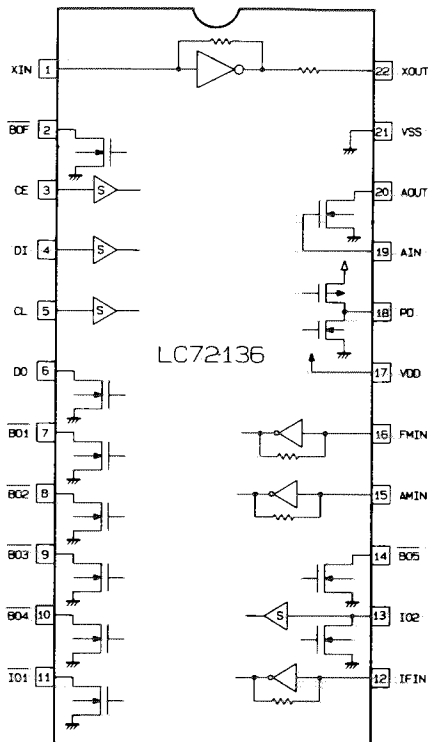


Fig. 8-1

■ IC1 (TA2057N) IF & MPX

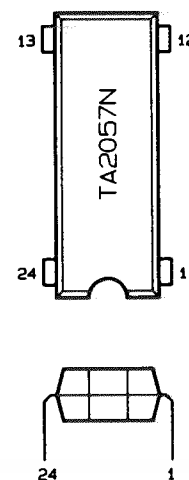
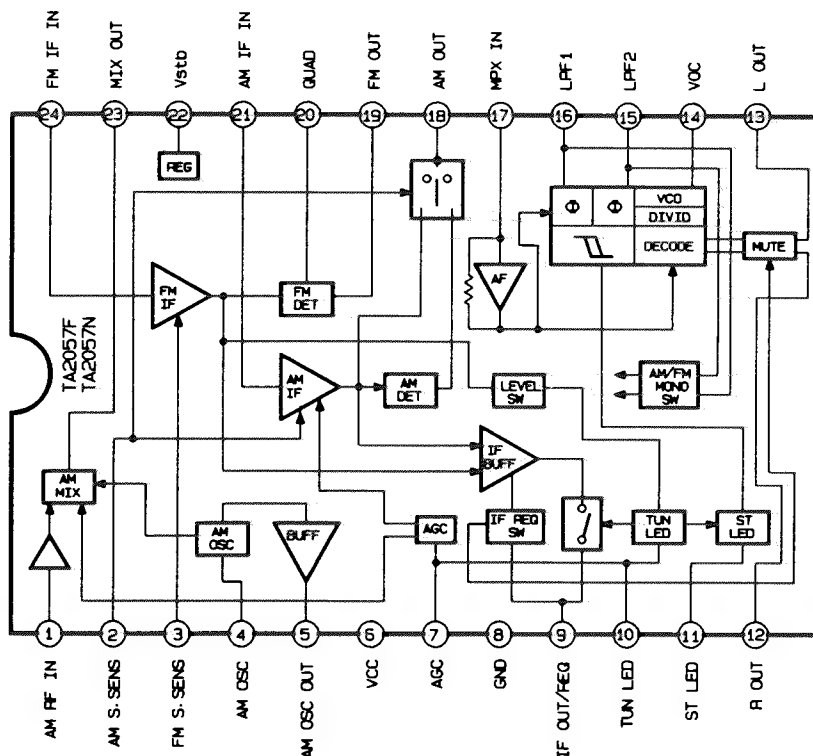
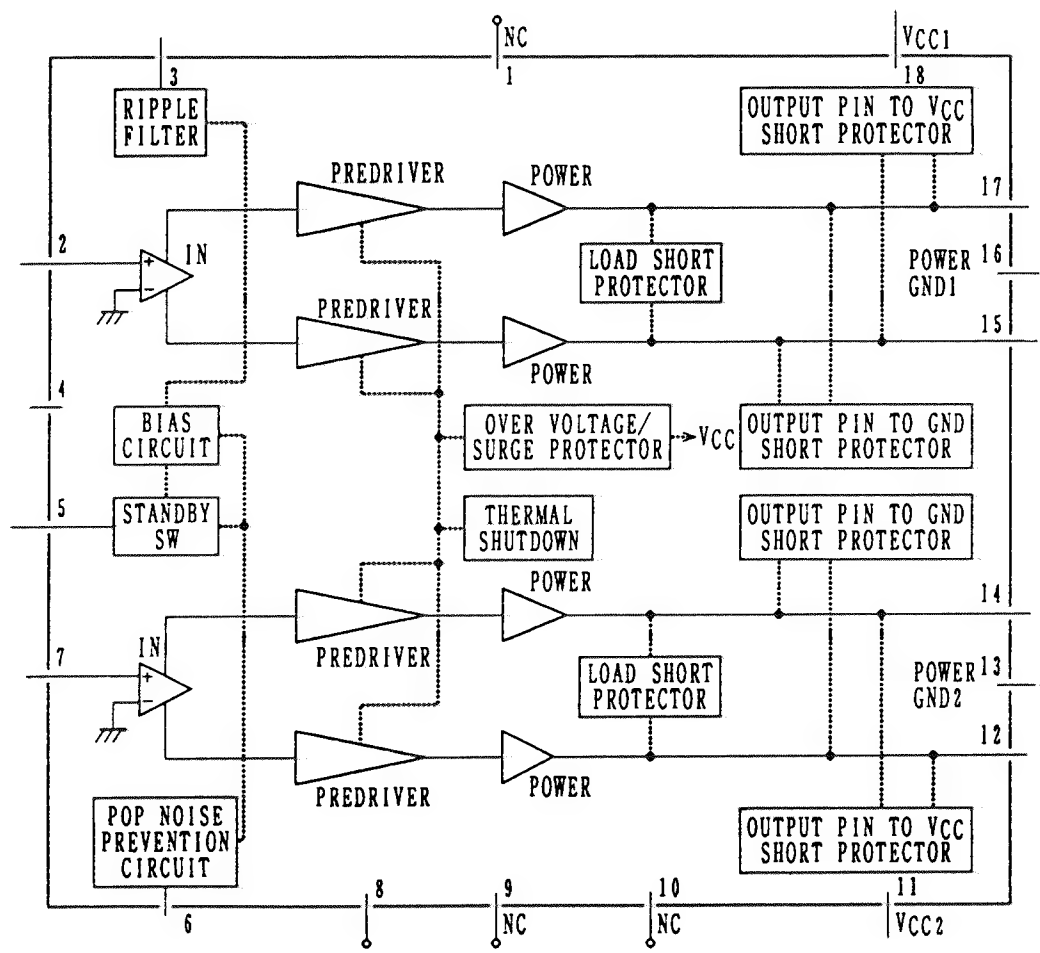


Fig. 8-2

■ IC31: LA4705NA (POWER AMPLIFIER)



■ IC701 : UPD78063GF Terminal's Function Table

Pin No.	Symbol	I/O	Function
1	SDATA	I/O	Serial data (TUNER PLL)
2	SCK	0	Serial clock (TUNER PLL)
3	SUBQ	I	CD Q cord data/RDS data
4	NC	0	Non connection
5	SQCK	0	Sincro clock of CD Q cord data
6	IC		Connect to Vss
7	X2		Main system clock 4.19MHz
8	X1	I	Main system clock 4.19MHz
9	Vdd		Power source
10	XT1	I	Sub system clock 32.768kHz
11	XT2		Sub system clock 32.768kHz
12	RESET	I	Reset
13	REM	I	Remote control unit
14	RDS CLOCK	I	Sincro clock of RDS data
15	VOL A	I	Volume encorder A
16	BEAT 2	0	Main clock selecttor 2
17	BEAT 1	0	Main clock selecttor 1
18	+ BCTL	0	Switched 5V control (H = 5V off)
19	XRESET	0	CD LSI reset
20	MCLK	0	CD LSI comand clock
21	MDATA	0	CD LSI comand data
22	MLD	0	CD LSI comand load
23	MTO	0	CD door motor
24	MT1	0	CD door motor
25	DIMMER	0	Backlight brilliant (H = normal, L = dimmer)
26	F.AUX	0	Fuction AUX (L = by AUX)
27	AVss		AD convertor ground
28	SAFETY2	I	Detection 2 for avnormal power voltage
29	DOOR	I	Reset/open/close switch
30	SAFETY1	I	Detection 1 for avnormal power voltage
31	SAFETY0	I	Detection 0 for avnormal power voltage
32	KEY 1	I	Set key input 1
33	KEY 0	I	Set key input 0 (Included to Version select)
34	MTS	0	Door motor speed (L = Normal, H = Slow)
35	LO.MUTE	0	Line out mute
36	AVdd		Power source for AD convertor (Vdd = same)
37	AVref		Reference power voltage for AD convertor
38	BUP	I	Distinction of backup power source (H = Backup)
39	F.TUNER	0	Function Tuner
40	Vss		Ground

Pin No.	Symbol	I/O	Function
41	MPX	I	Detection of FM stereo (L = Stereo)
42	PERIOD	0	Stolove of Tuner PLL
43	VOL B	I	Volume encorder B
44	BASS	0	Bass control (PWM)
45	TRE	0	Treble control (PWM)
46	VOL	0	Volume control (PWM)
47	S.BASS	0	S.BASS ON/OFF (ON = L, OFF = H)
48	S.MUTE	0	System mute (mute = L)
49	P.OUT	0	Power on/off
50	F.CD	0	Function CD (CD = L)
51	COM 0	0	LCD Remote control unit terminal 0
52	COM 1	0	LCD Remote control unit terminal 1
53	COM 2	0	LCD Remote control unit terminal 2
54	COM 3	0	LCD Remote control unit terminal 3
55	BIAS		LCD bias power voltage
56	VLC 0		LCD bias power voltage
57	VLC 1		LCD bias power voltage
58	VLC 2		LCD bias power voltage
59	Vss		Ground
60	S0	0	LCD segment 0
61	S1	0	LCD segment 1
62	S2	0	LCD segment 2
63	S3	0	LCD segment 3
64	S4	0	LCD segment 4
65	S5	0	LCD segment 5
66	S6	0	LCD segment 6
67	S7	0	LCD segment 7
68	S8	0	LCD segment 8
69	S9	0	LCD segment 9
70	S10	0	LCD segment 10
71	S11	0	LCD segment 11
72	S12	0	LCD segment 12
73	S13	0	LCD segment 13
74	S14	0	LCD segment 14
75	S15	0	LCD segment 15
76	S16	0	LCD segment 16
77	S17	0	LCD segment 17
78	S18	0	LCD segment 18
79	S19	0	LCD segment 19
80	S20	0	LCD segment 20

[illegible]

9. Block Diagram

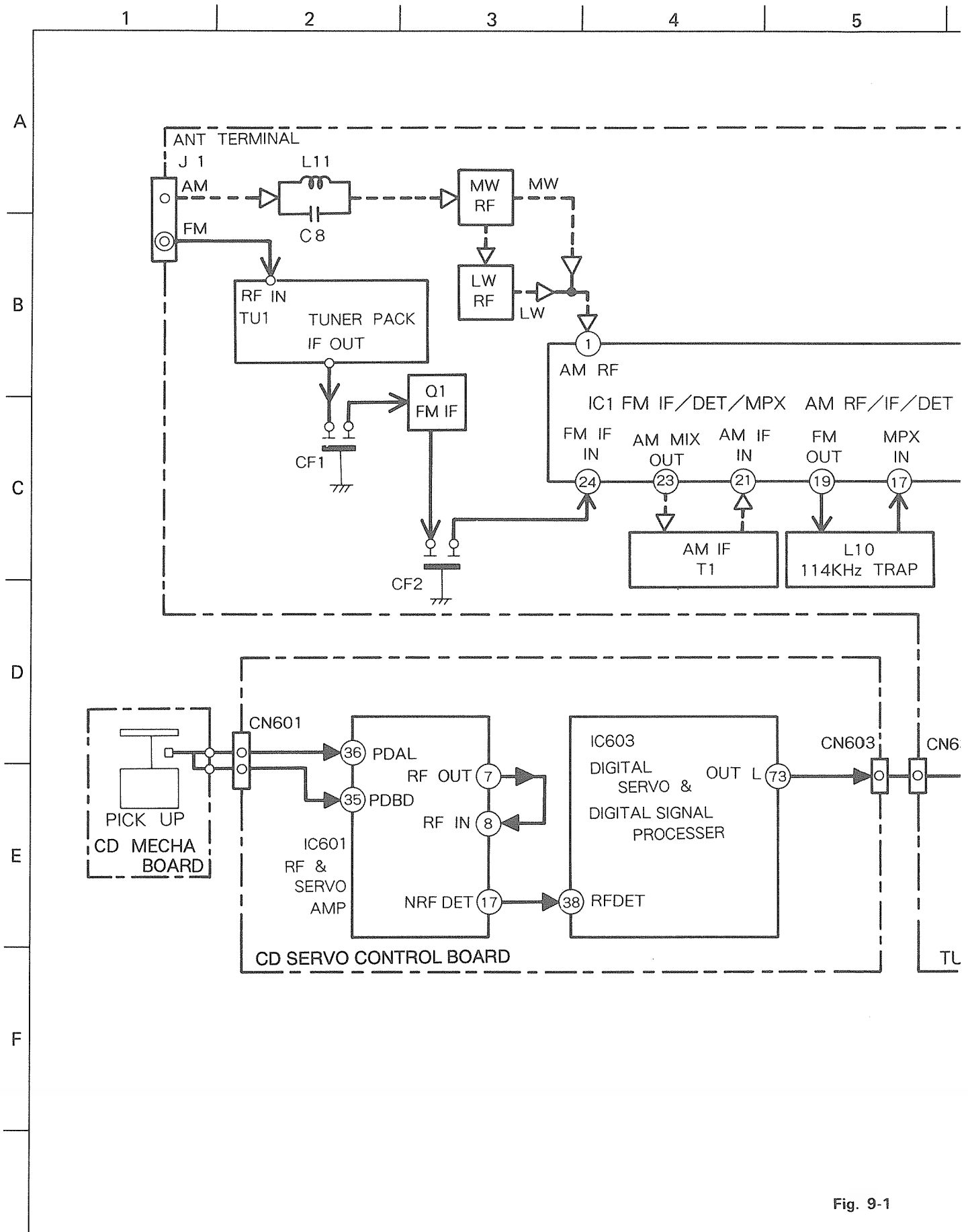
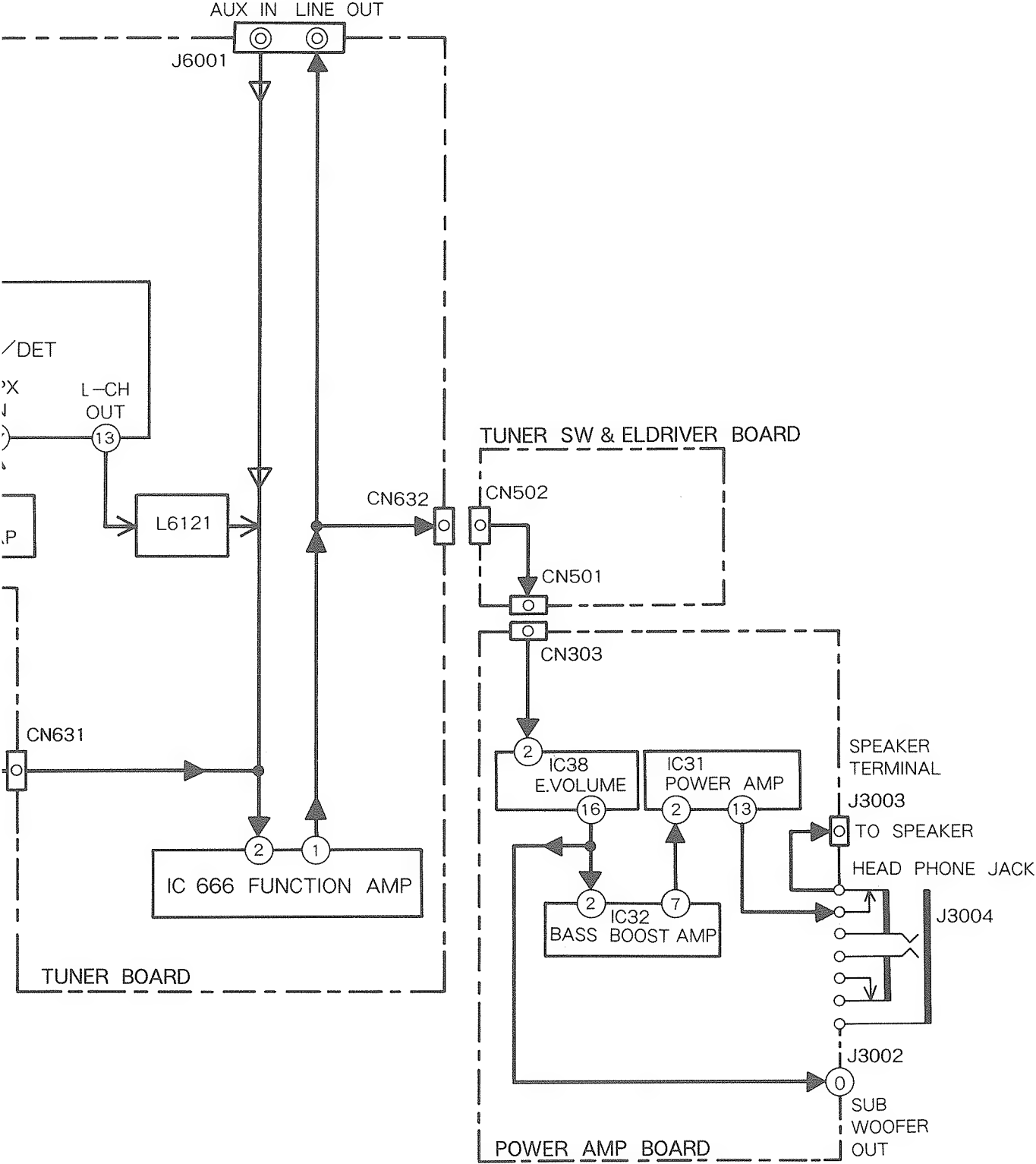


Fig. 9-1

	6	7	8	9	10
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10. Wiring Connections

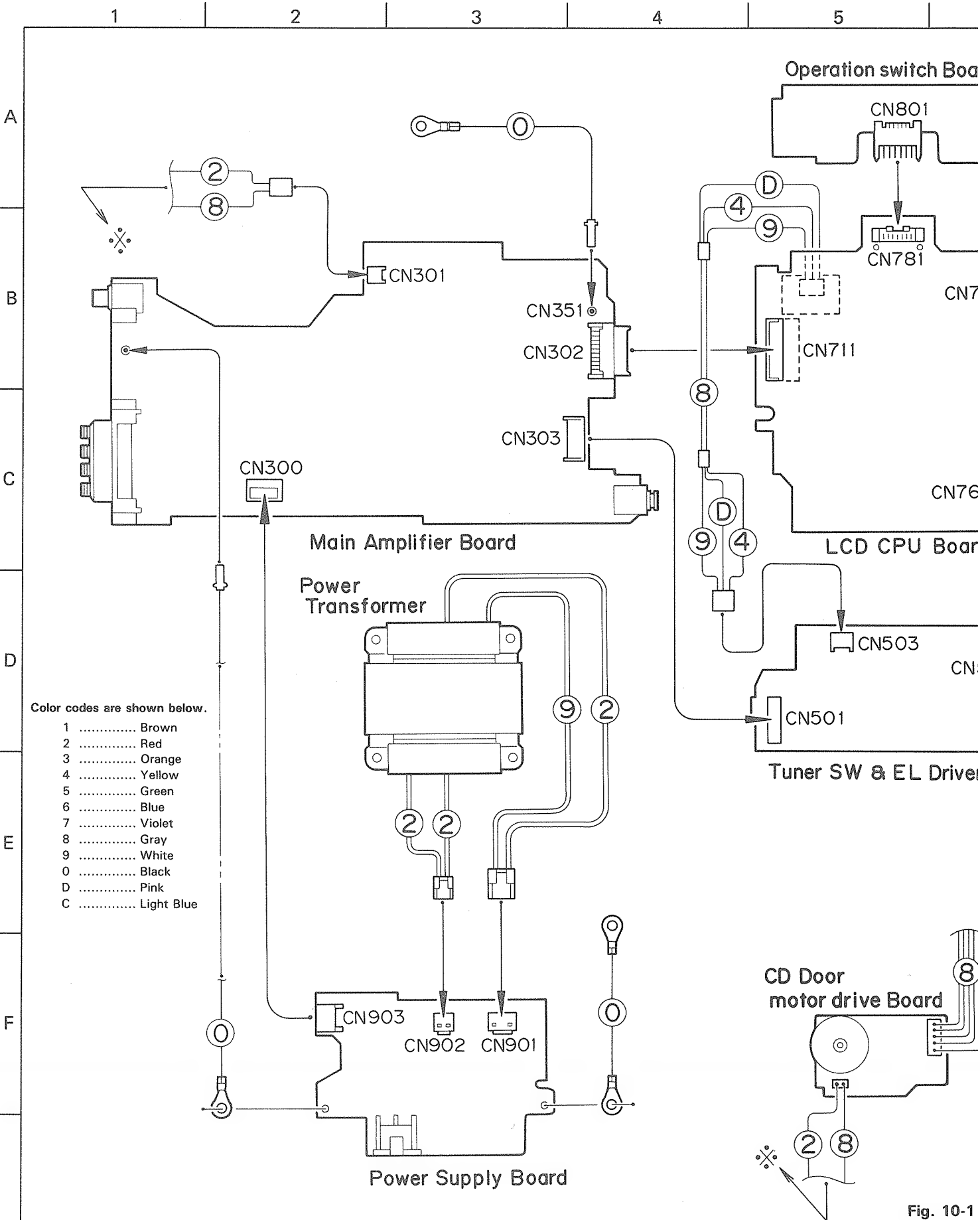


Fig. 10-1

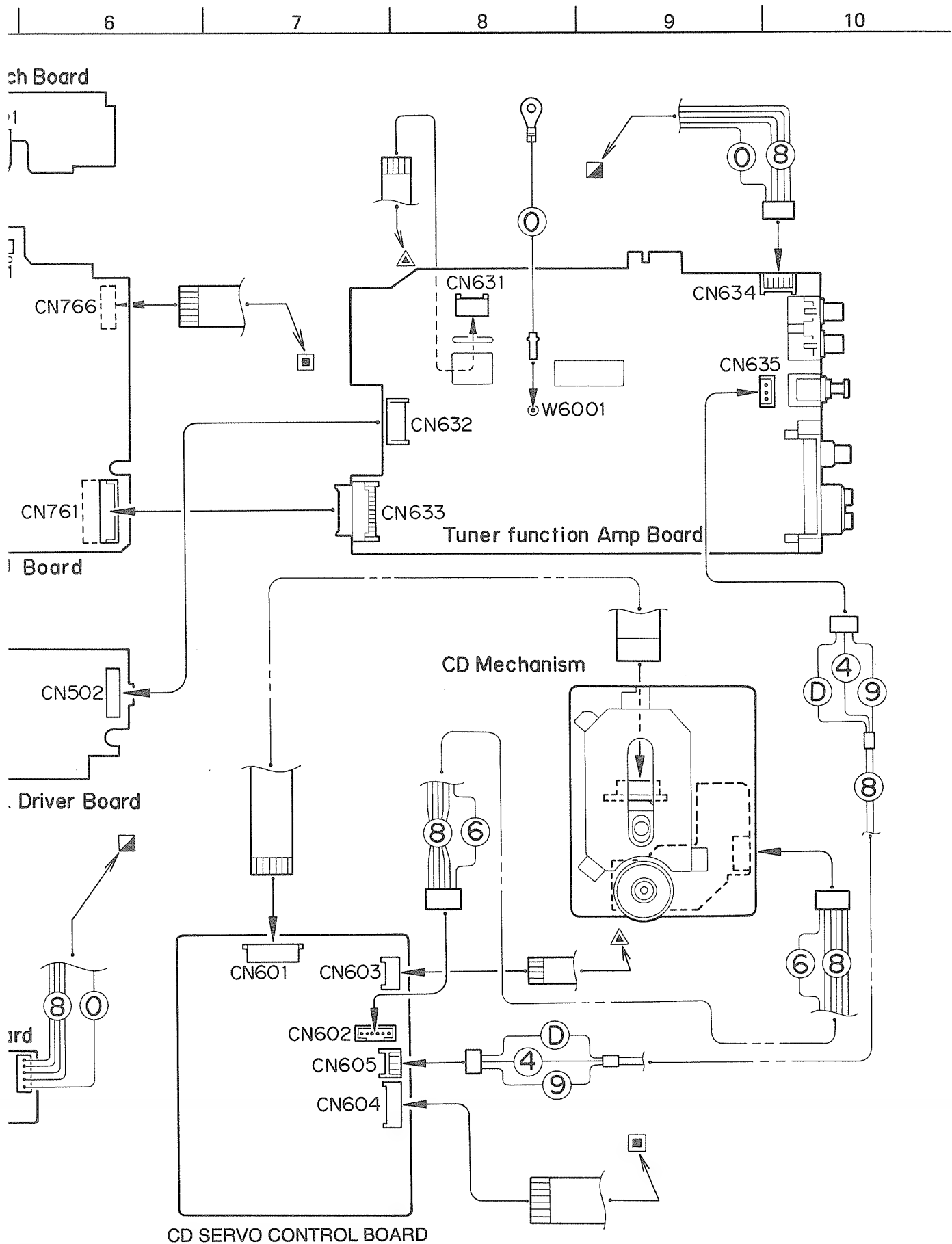
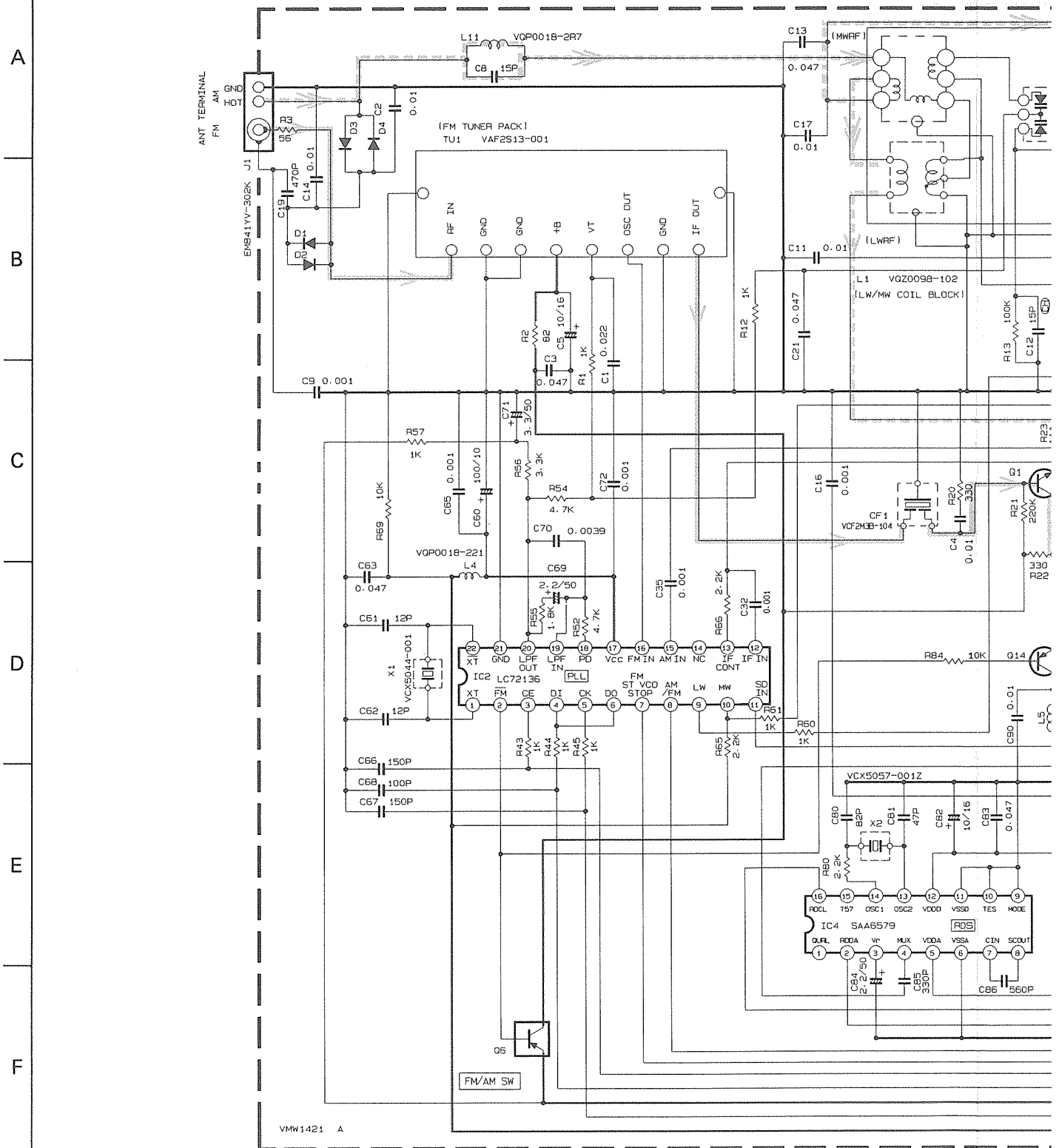
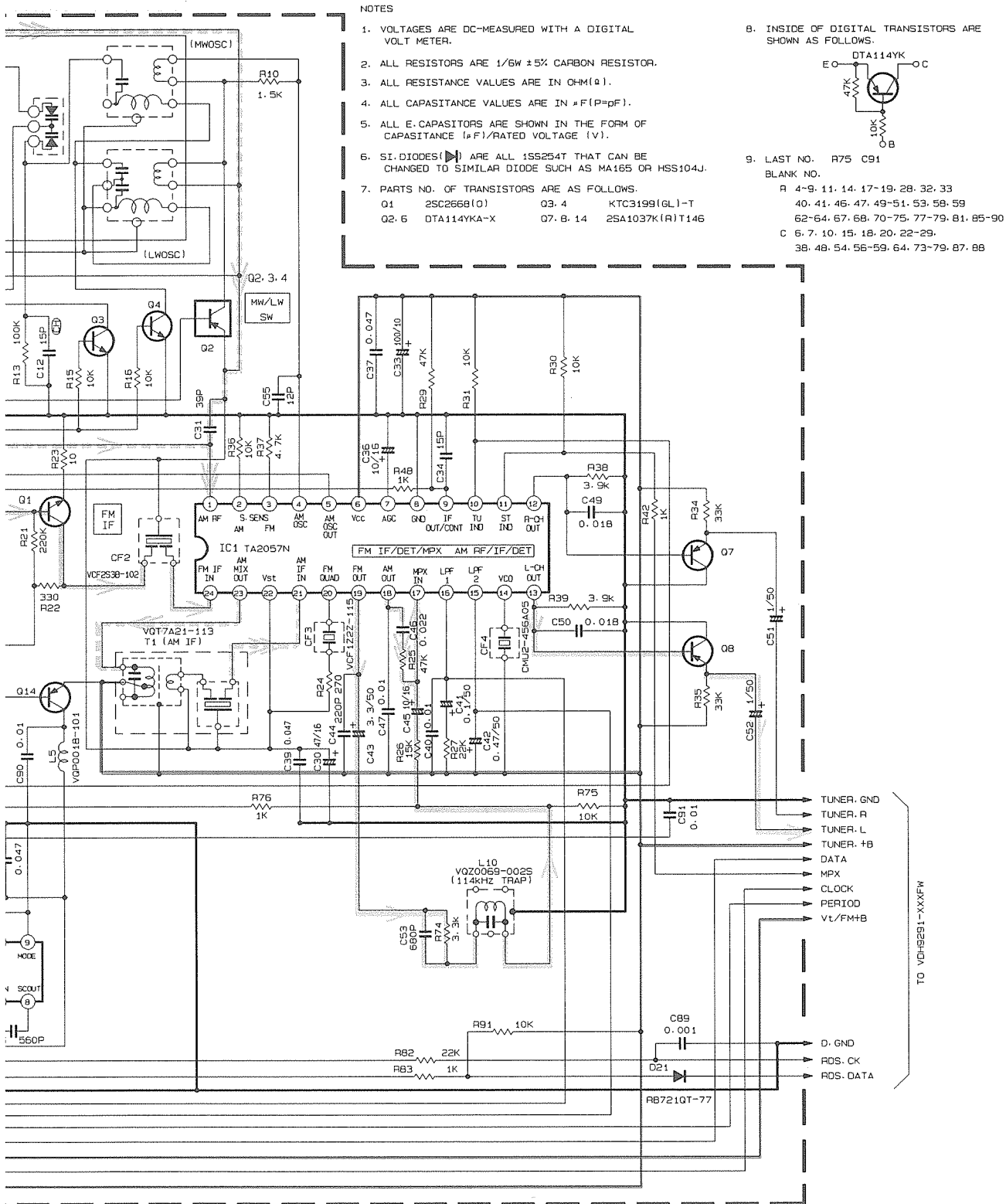


Fig. 10-1

11. Standard Schematic Diagram

■ Tuner Circuit : Drawing No.VDH9292-005TW





Tr NO.	Q1			Q5			Q7			Q8		
PIN NO.	E	C	B	E	C	B	E	C	B	E	C	B
M 87-5MHz NO SIGNAL	0	7.5	0.7	8.8	8.7	0	1.6	0	1.1	1.6	0	1.1
M 522kHz NO SIGNAL	0	0	0	8.8	0	8.7	1.6	0	1.1	1.6	0	1.1

FM Radio signal

MW Radio signal

LW Radio signal

+B Line

1

2

3

4

5

CD Servo Control Circuit : Drawing No.VDH1010-001CW

A

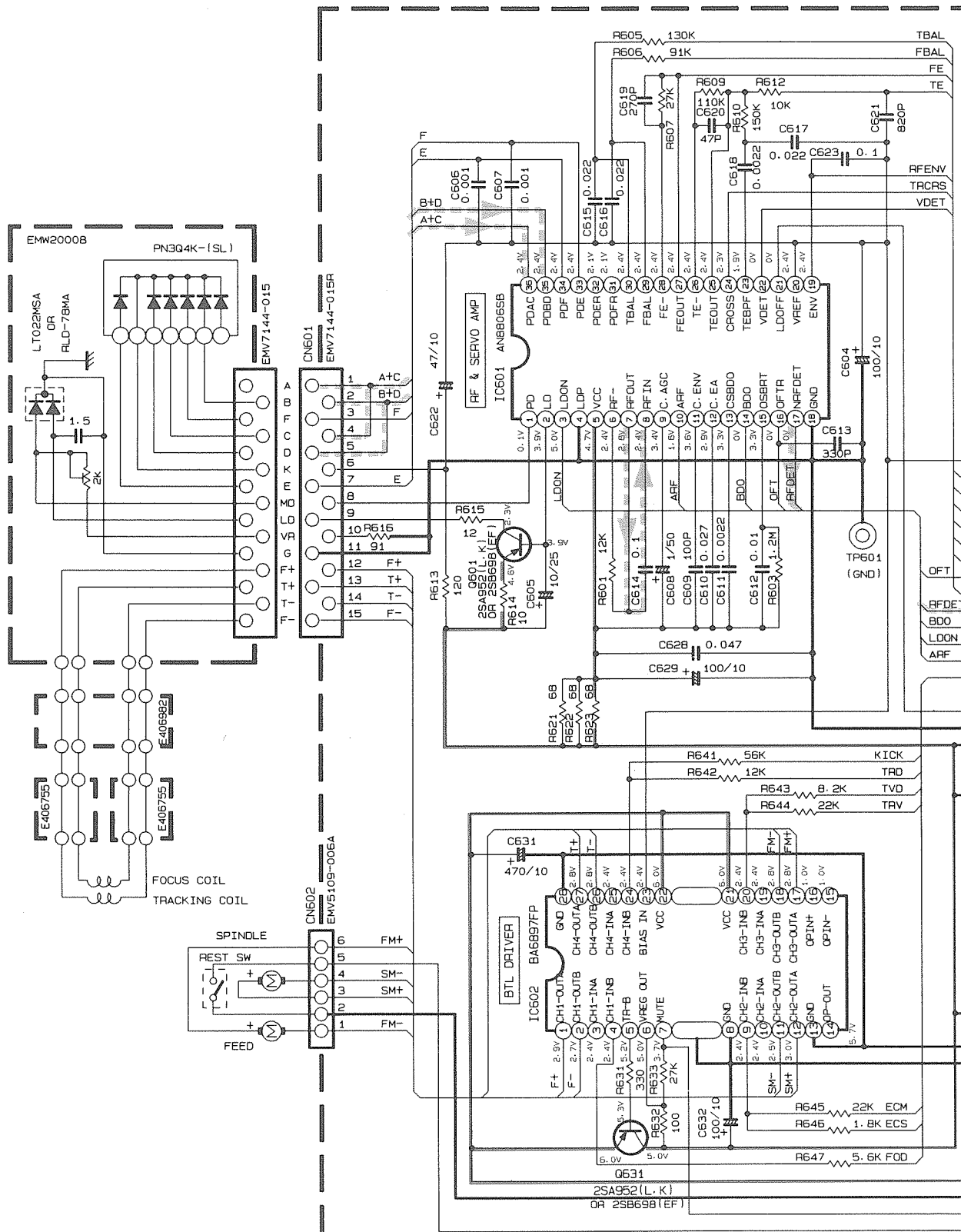
B

C

D

E

F



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
ALL RESISTANCE VALUES ARE IN OHM (Ω).
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
ALL CAPACITANCE VALUES ARE IN PICO (pF).
ALL E.C. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (pF)/RATED VOLTAGE (V).

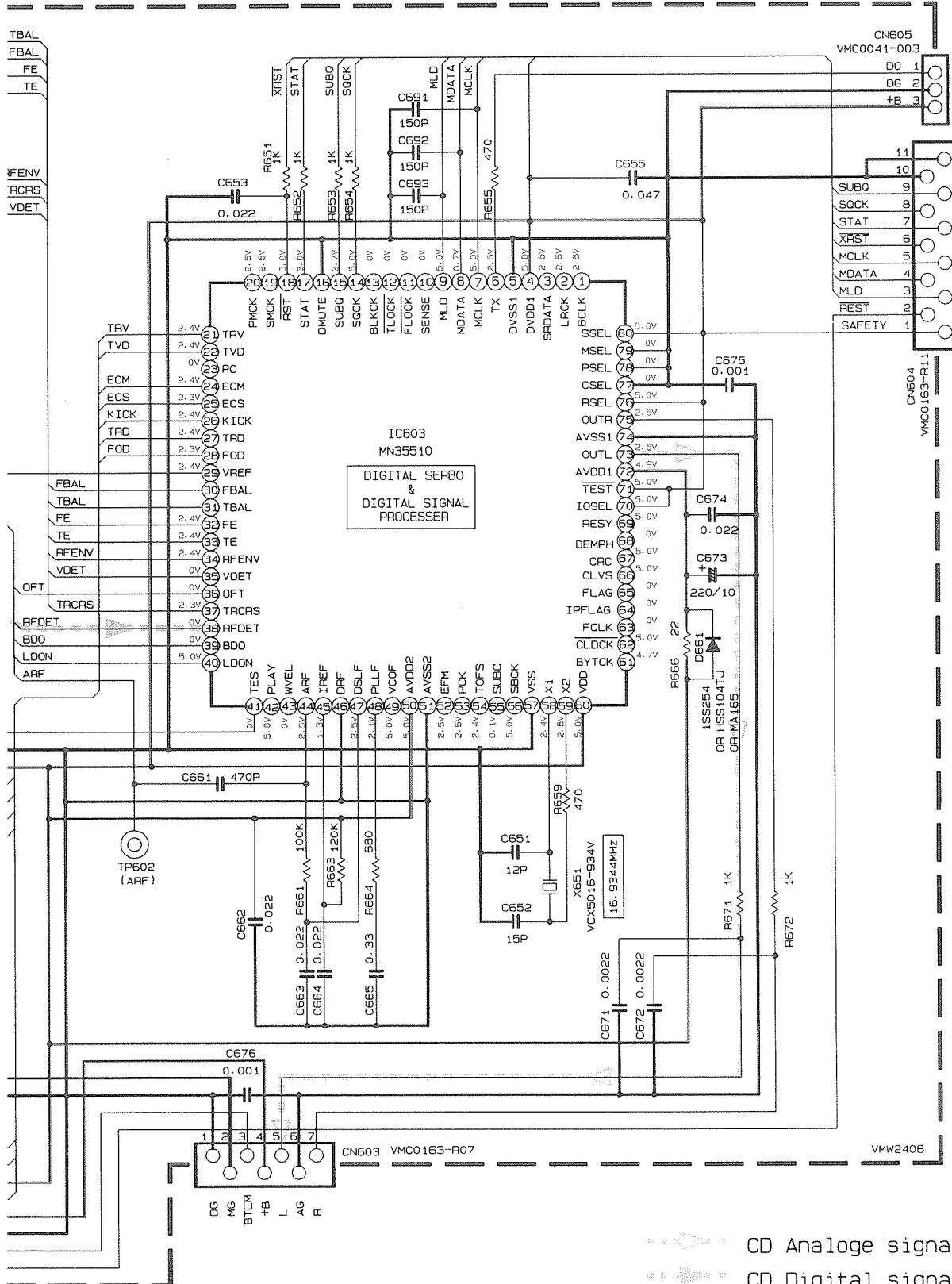
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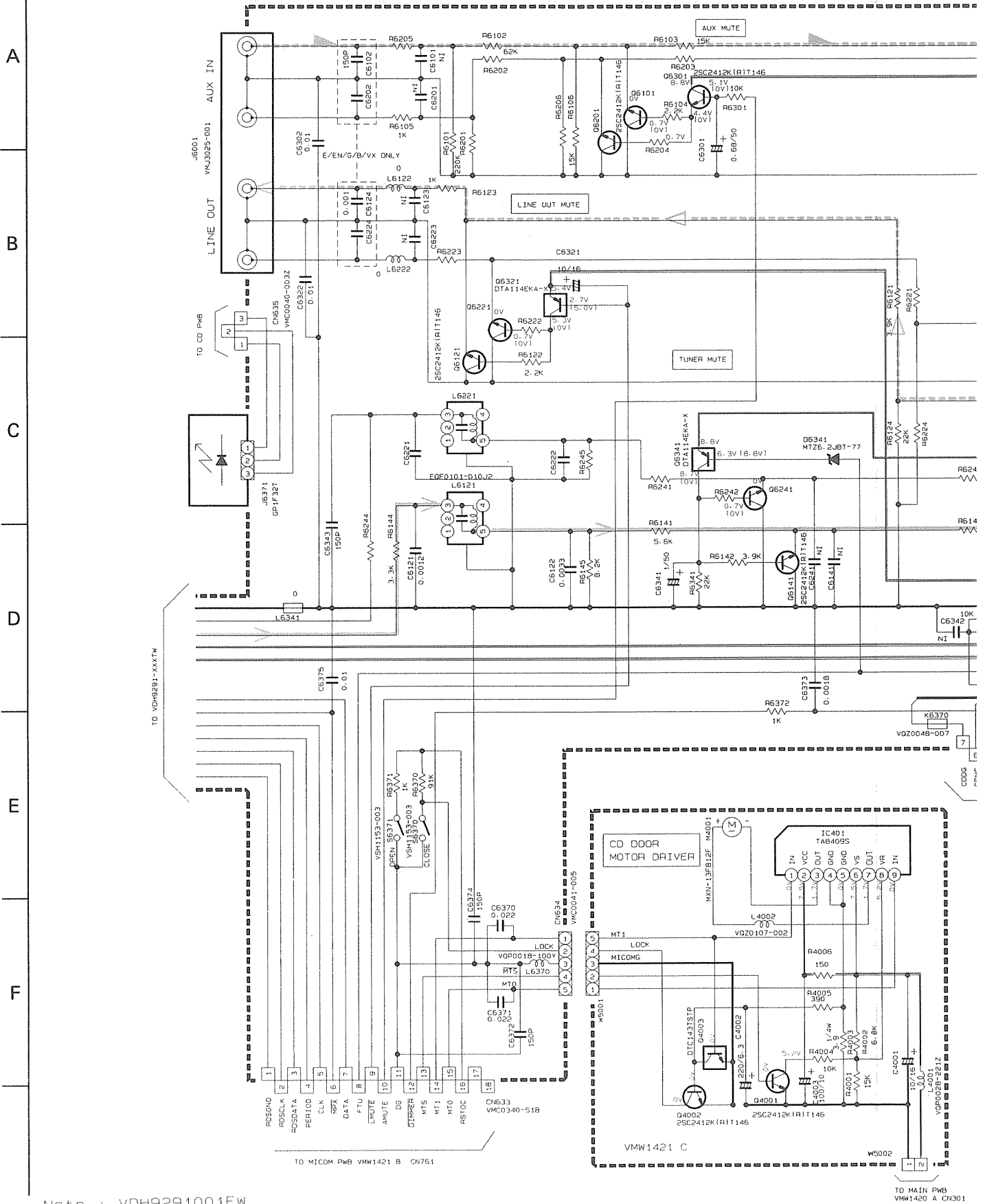
10



CD Analoge signal
CD Digital signal

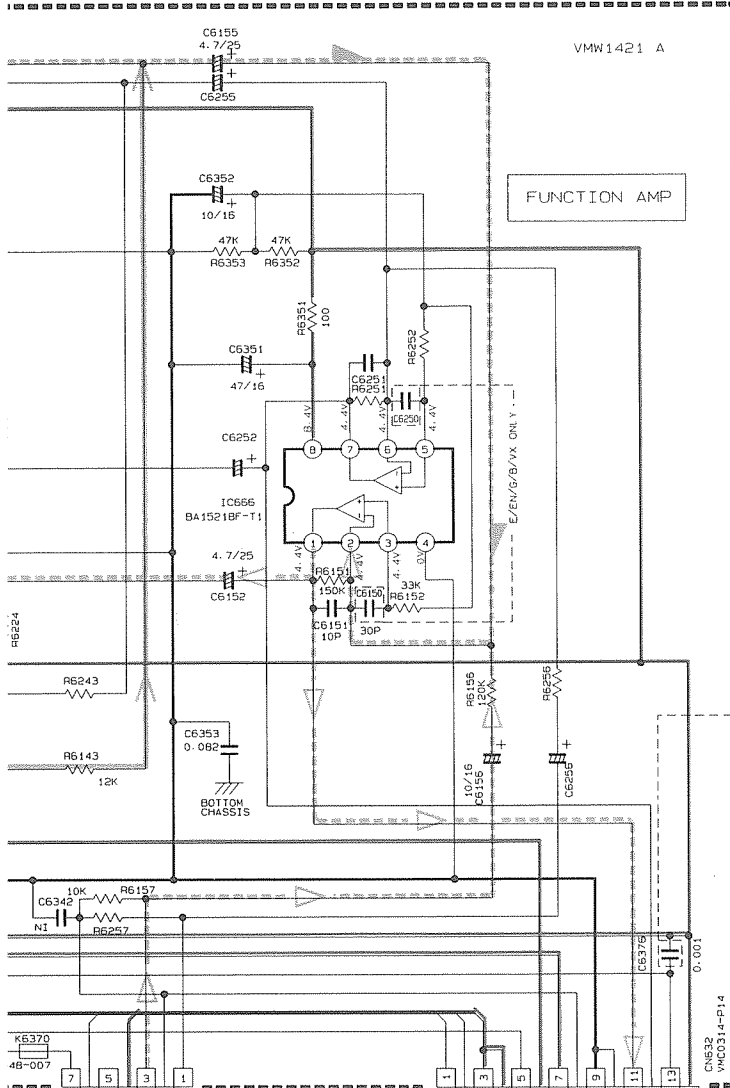
+B Line

■ Function Amplifier Circuit : Drawing No.VDH9291-001FW/



Note : VDH9291001FW

(No.10004) 48



NOTES

- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONDITION --- CD STOP MODE
INSIDE BRACKET VALUES ARE OTHER FUNCTIONS
1 1 IS INVERT MODE

- UNLESS OTHERWISE SPECIFIED:
RESISTORS ARE 1/6 \pm 5% CARBON RESISTOR OR 1/10W \pm 5% MG RESISTOR
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
ALL CAPACITANCE VALUES ARE IN μ FIP=PF1.
ALL INDUCTANCE VALUES ARE IN μ HIN=MH1.
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (X F)/RATED VOLTAGE (V).
ALL DIODES ARE 1552541-77 OR H551041J
NI MEANS NO INSERT

(FR) FUSEBLE RESISTOR

DTA114EKA-X

DTC143T5TP



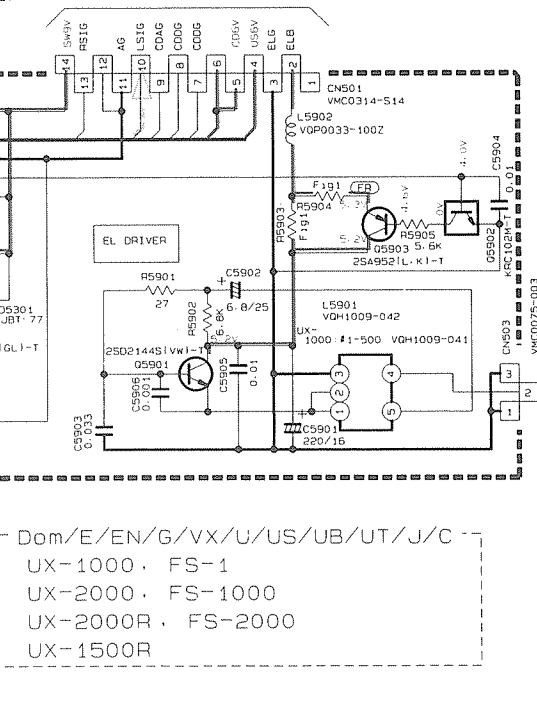
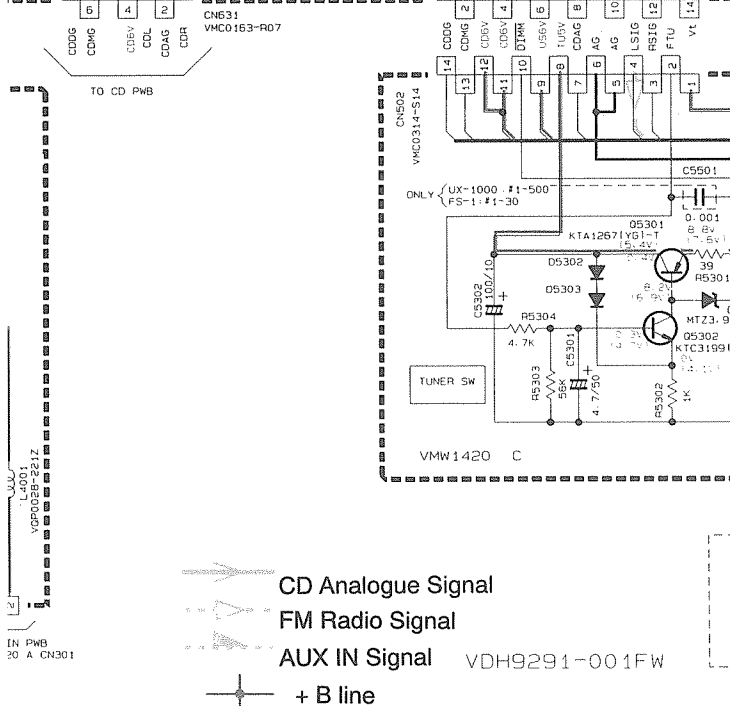
EXCEPT UX-1000 #1-500
FS-1 #1-30

Fig1

	UX-1000 #1-500
R5903	270 Ω
R5904	47 Ω 1/4W (GRZ0077-470X)

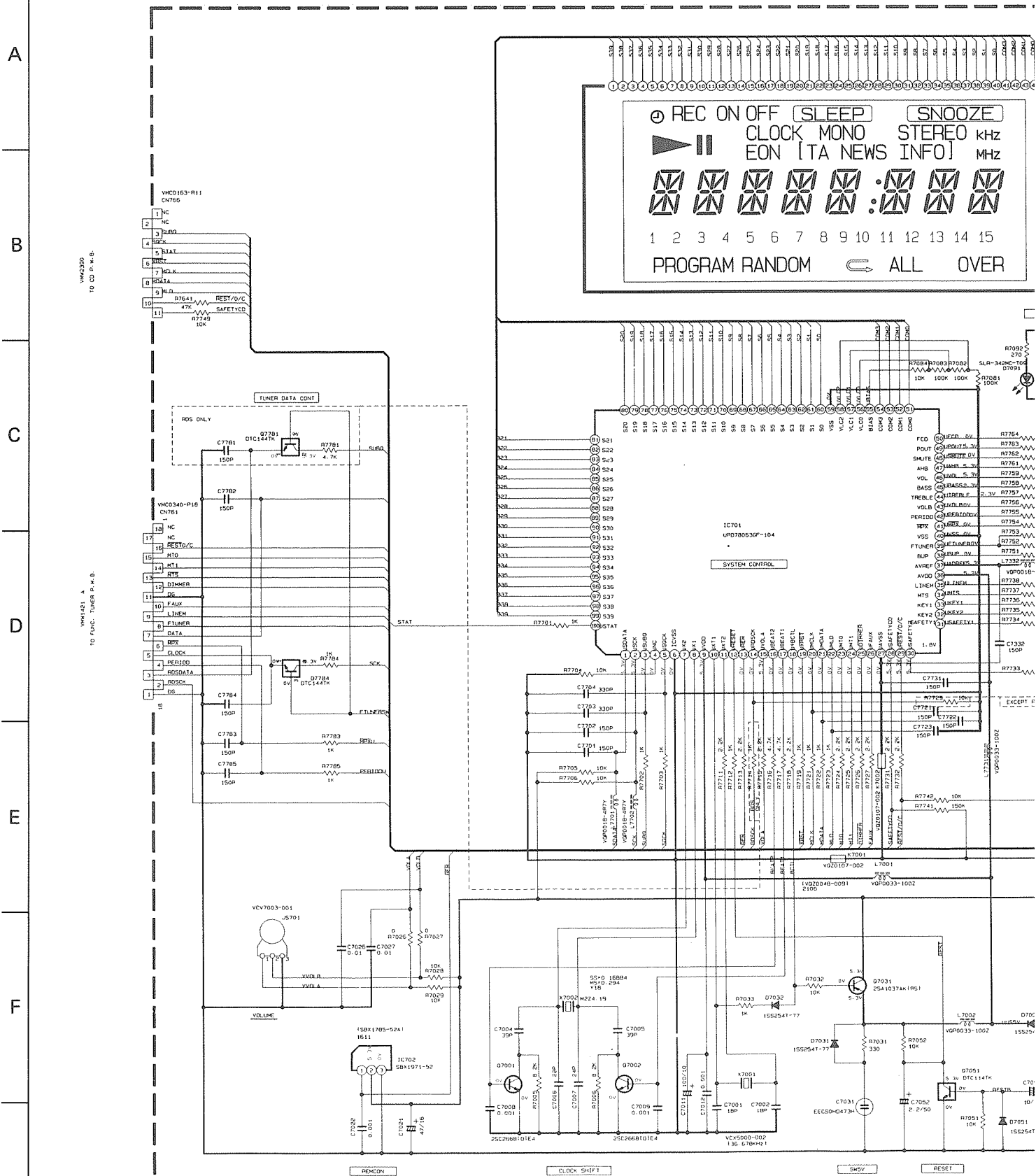
	UX-1000/UX-1500R	FS-1/UX2000 /UX-2000R
R5903	330 Ω	270 Ω
R5904	68 Ω 1/4W (GRZ0077-680X)	47 Ω 1/4W (GRZ0077-470X)

TO MAIN PWB
VMW1420 A CN303



Dom/E/EN/G/VX/U/US/UB/UT/J/C
UX-1000 . FS-1
UX-2000 . FS-1000
UX-2000R . FS-2000
UX-1500R

■ LCD & System CPU Circuit: Drawing No. VDH9291-005SV



Note : VDH9291005SV

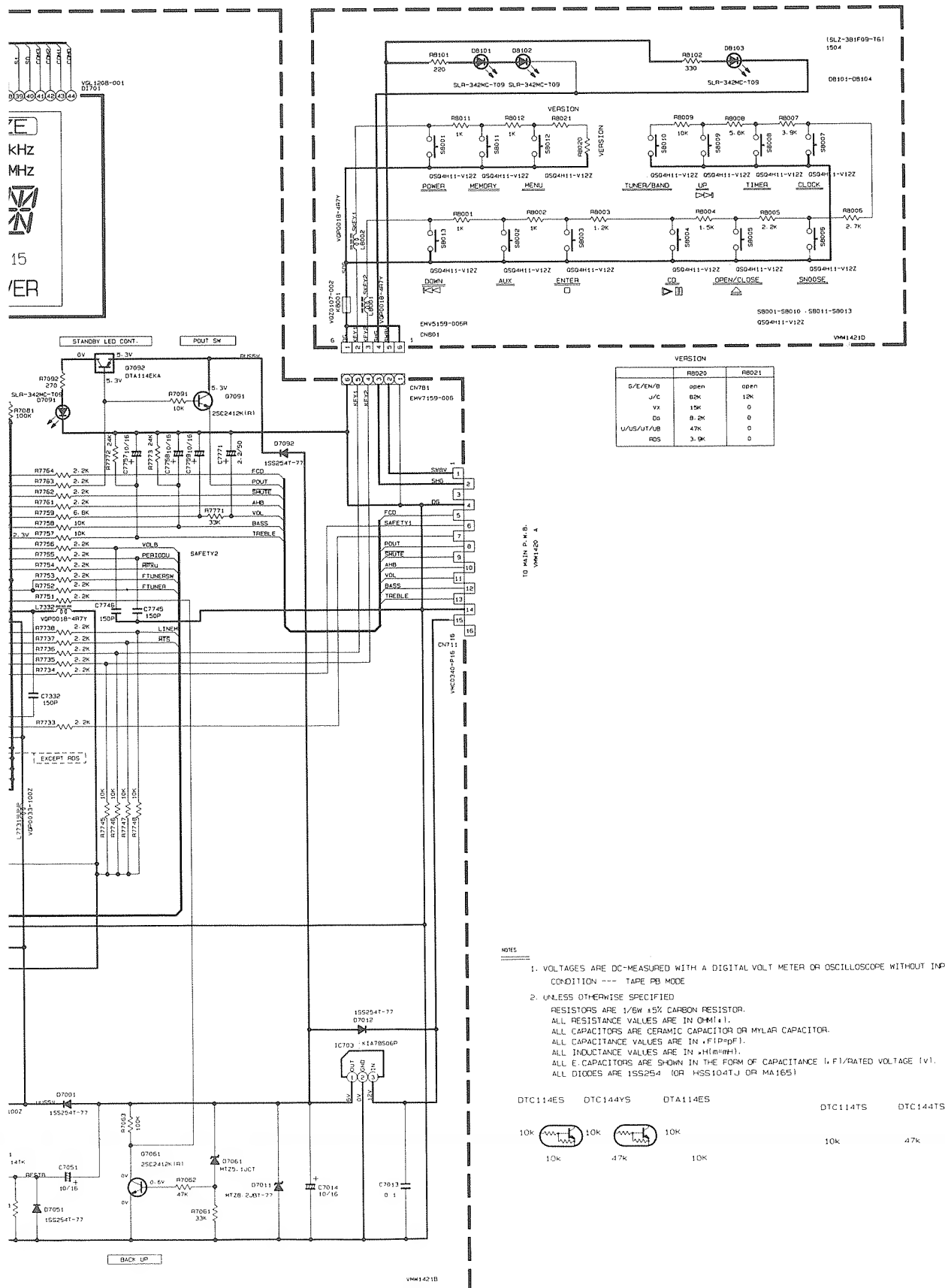
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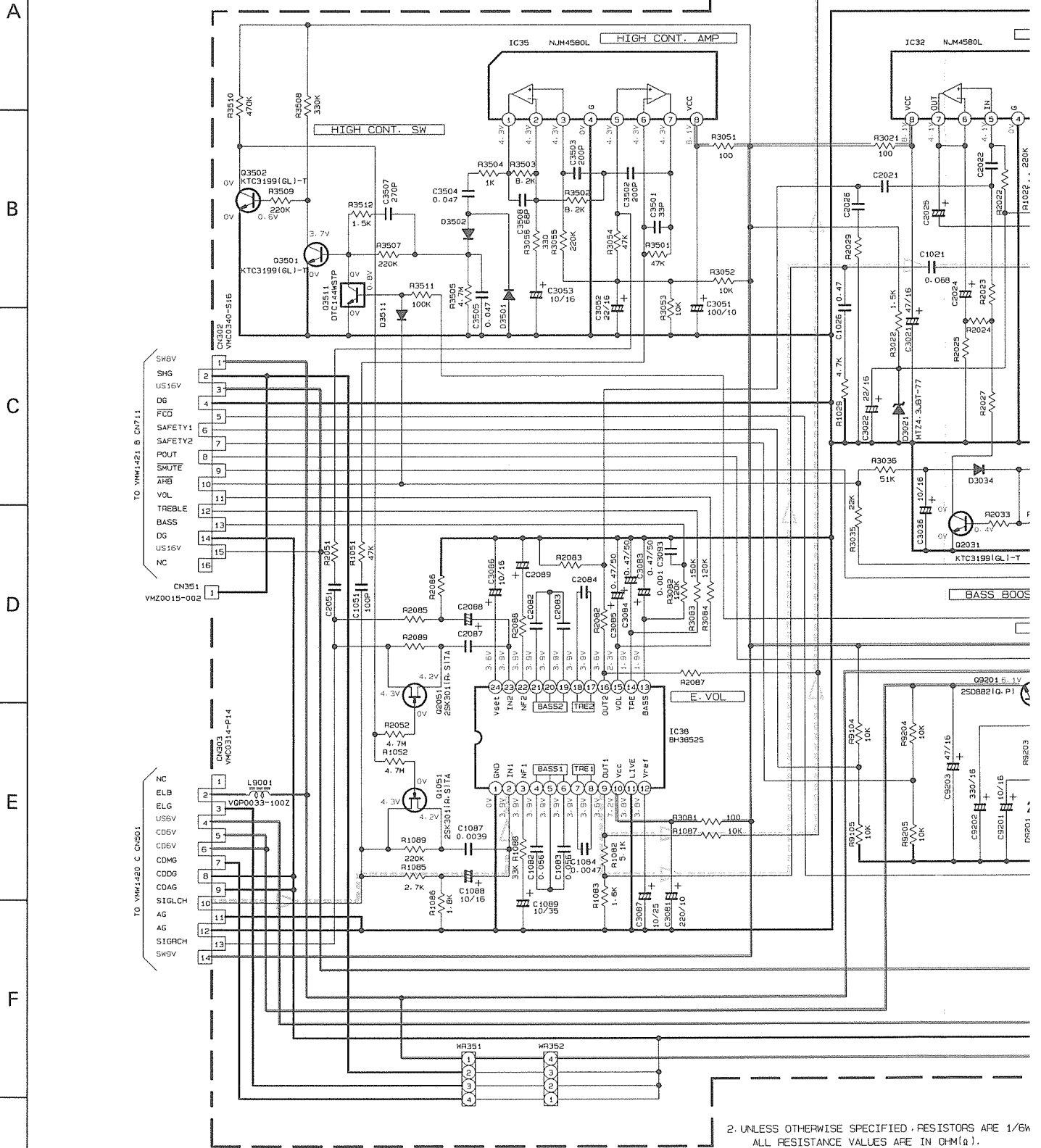
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■ Power Supply&Power Amplifier Circuit : Drawing No.VDH9291-008AV



2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/6W
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR
ALL CAPACITANCE VALUES ARE IN, F(P=PF).
ALL INDUCTANCE VALUES ARE IN μH(mmH).
ALL E. CAPACITORS ARE SHOWN IN THE FORM OF C/
ALL DIODES ARE H5S104TJ OR 1SS254T-77

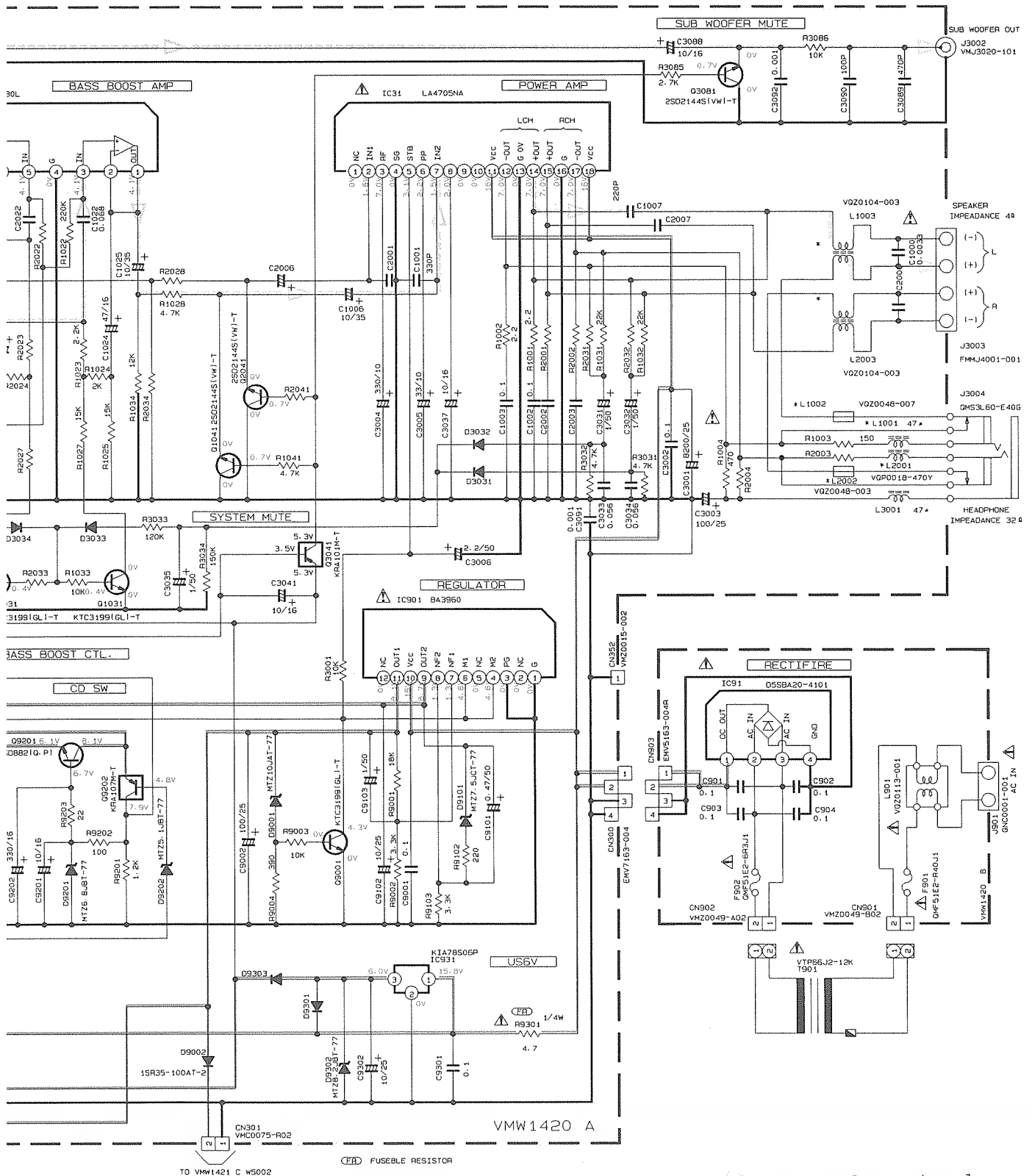
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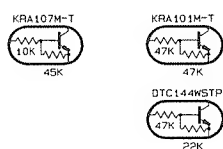
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5 ARE 1/6W ±5% CARBON RESISTOR.
 J).
 OR OR MYLAR CAPACITOR.
 =pF).
 mH).
 FORM OF CAPACITANCE (F)/RATED VOLTAGE (V).
 254T-77



CD Analoge signal

+B Line

12. Location of P. C. Board Parts

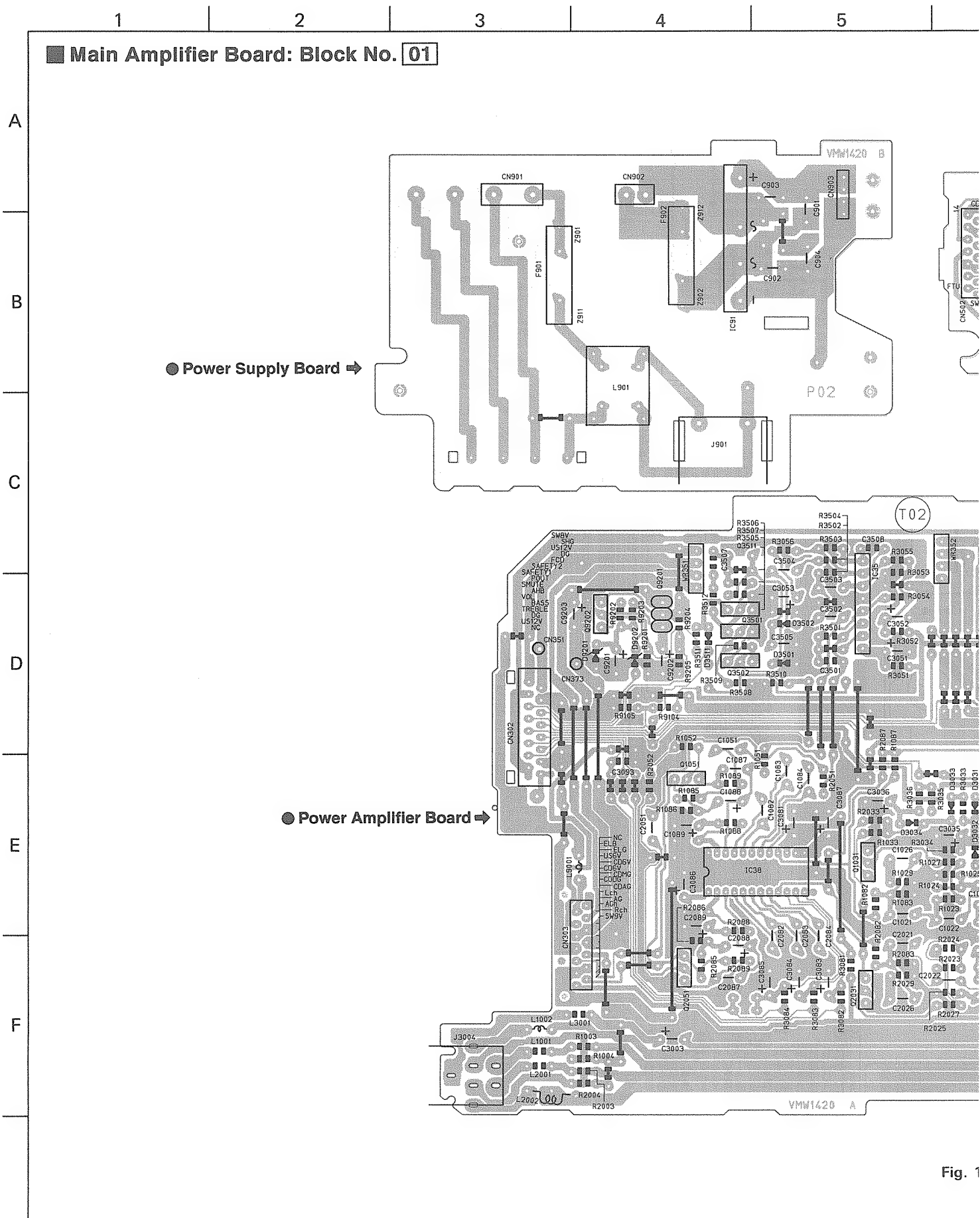
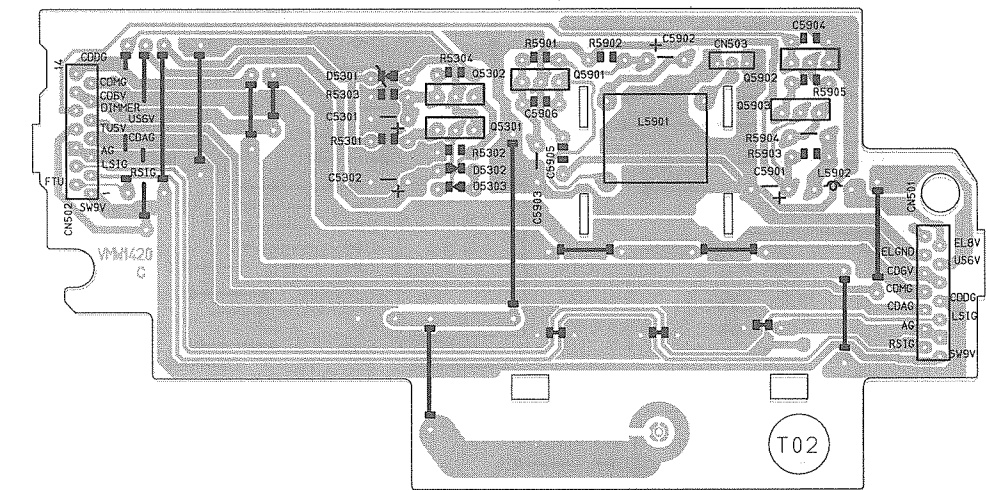
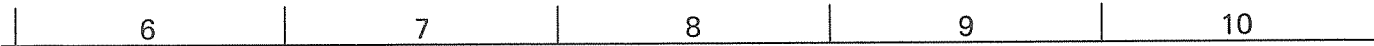


Fig. 1



← ● Tuner Switch & EL Drive Board

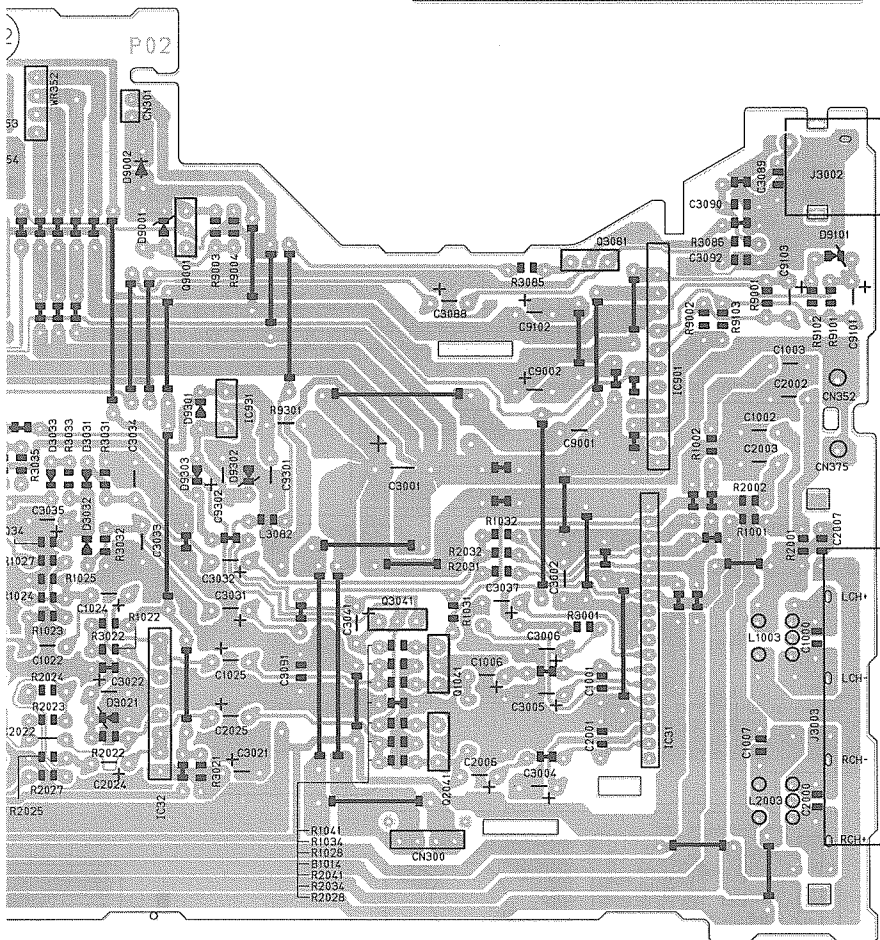


Fig. 12-1

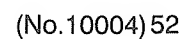


Fig. 12-2

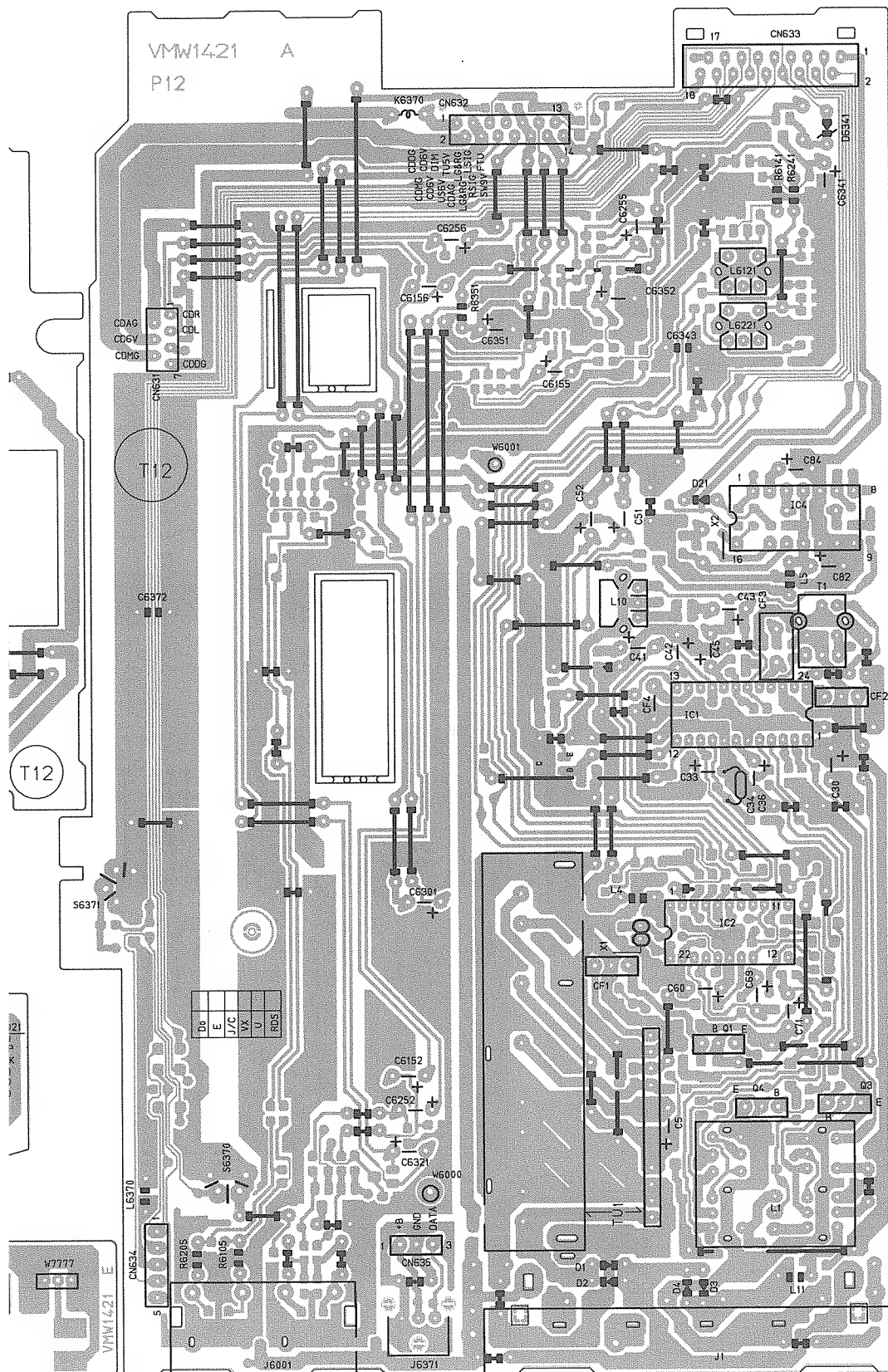
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← Tuner Function Board

■ CD Servo Control Board : Block No. 03

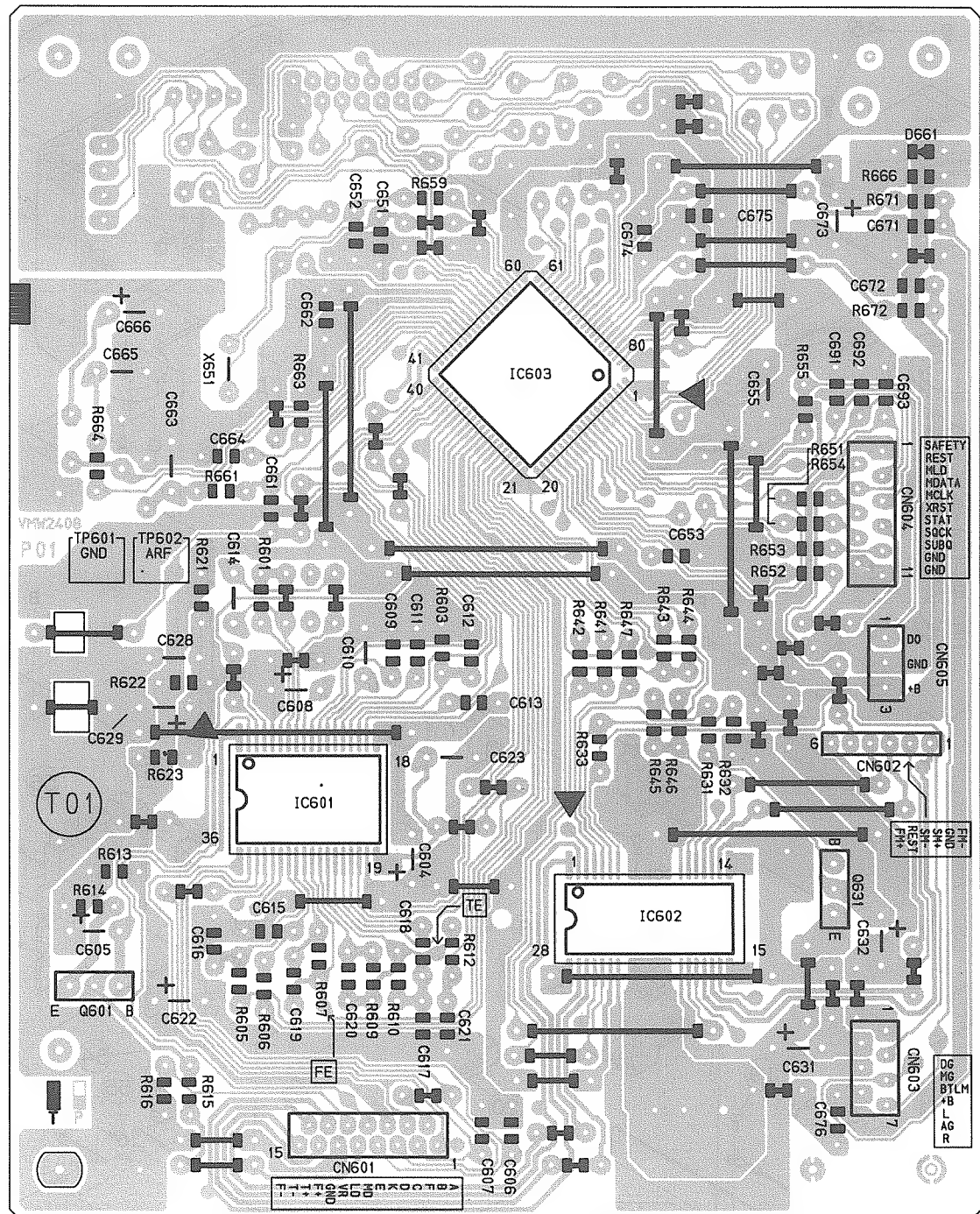
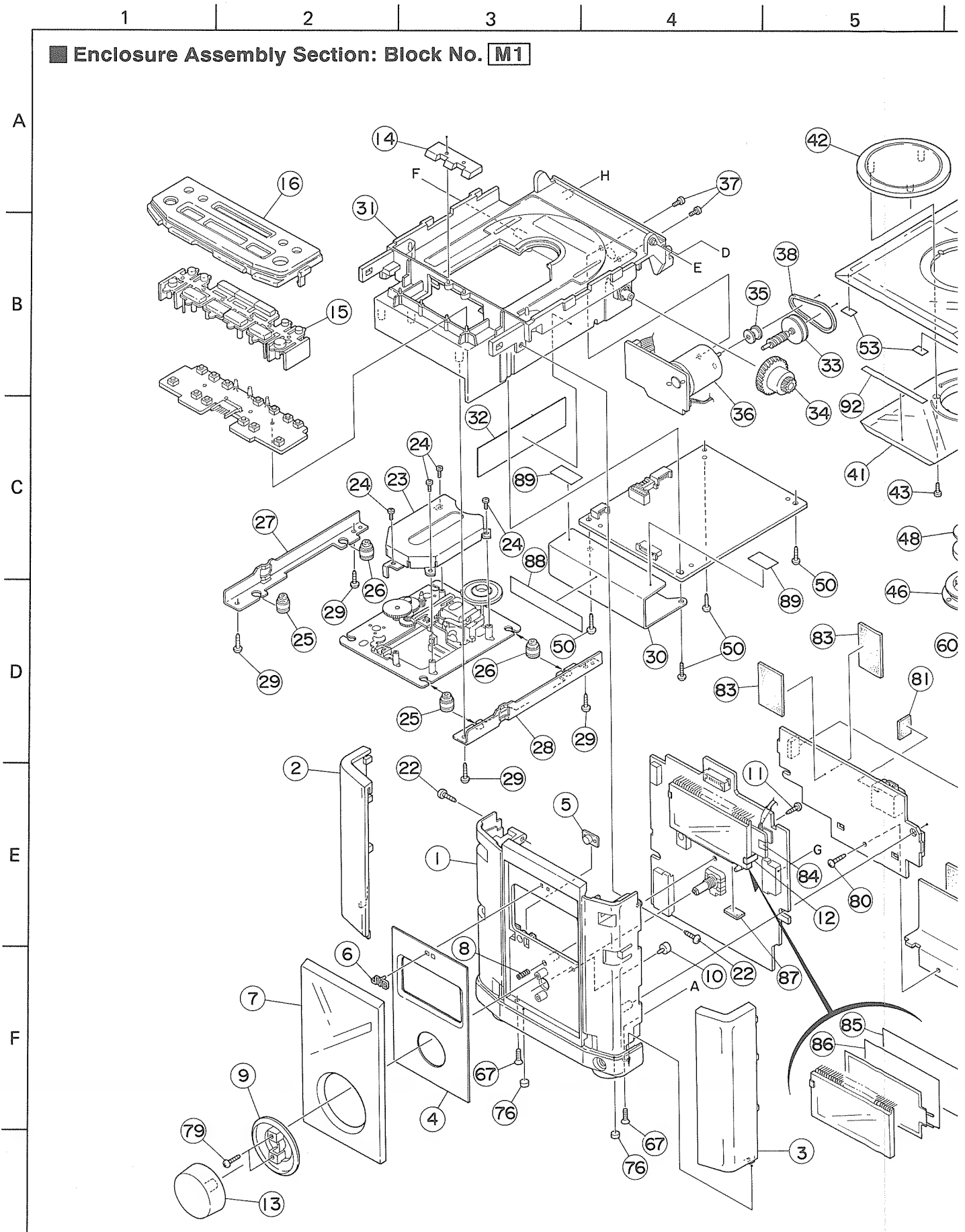


Fig. 12-3

6	7	8	9	10
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13. Analytic Drawing and Parts List



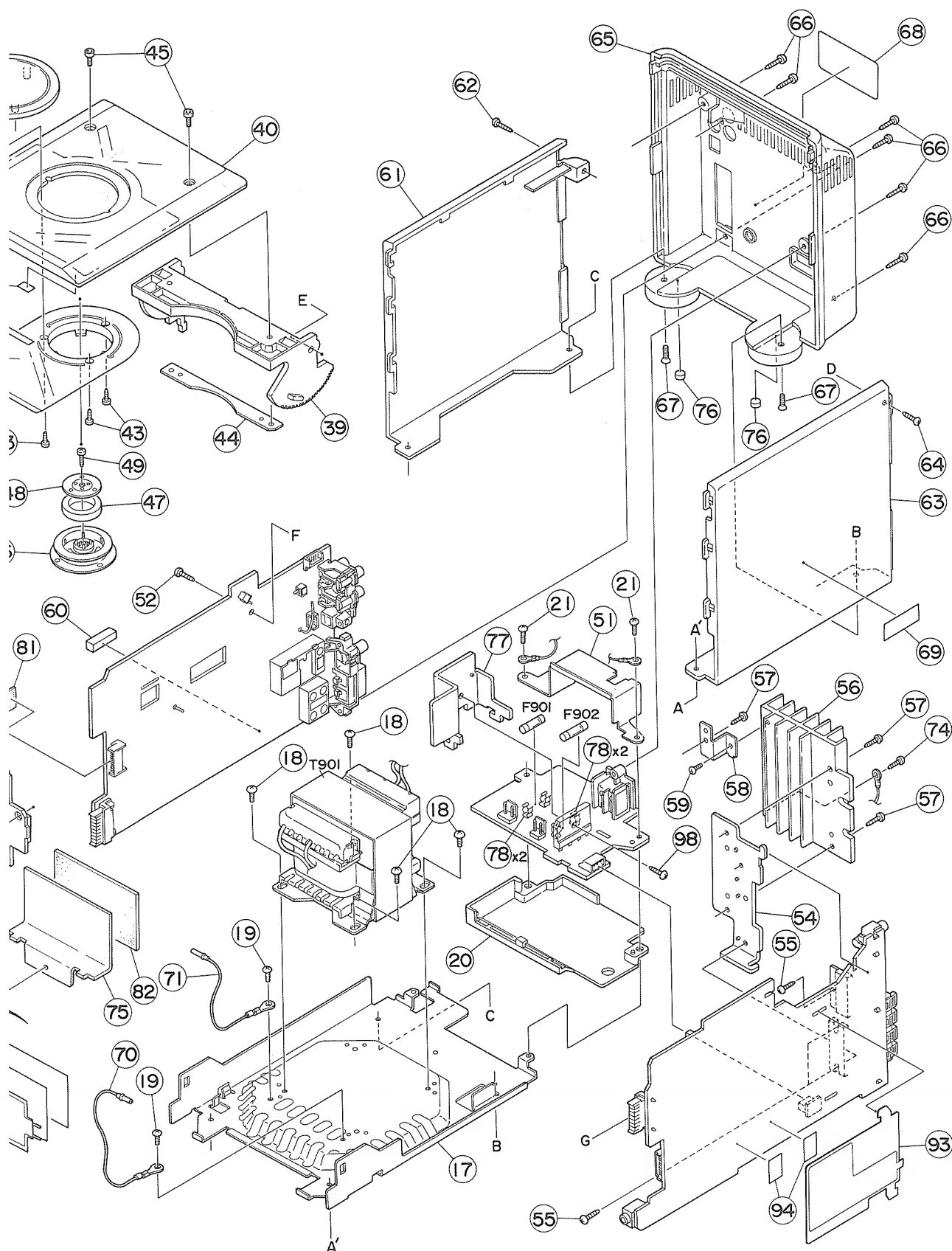
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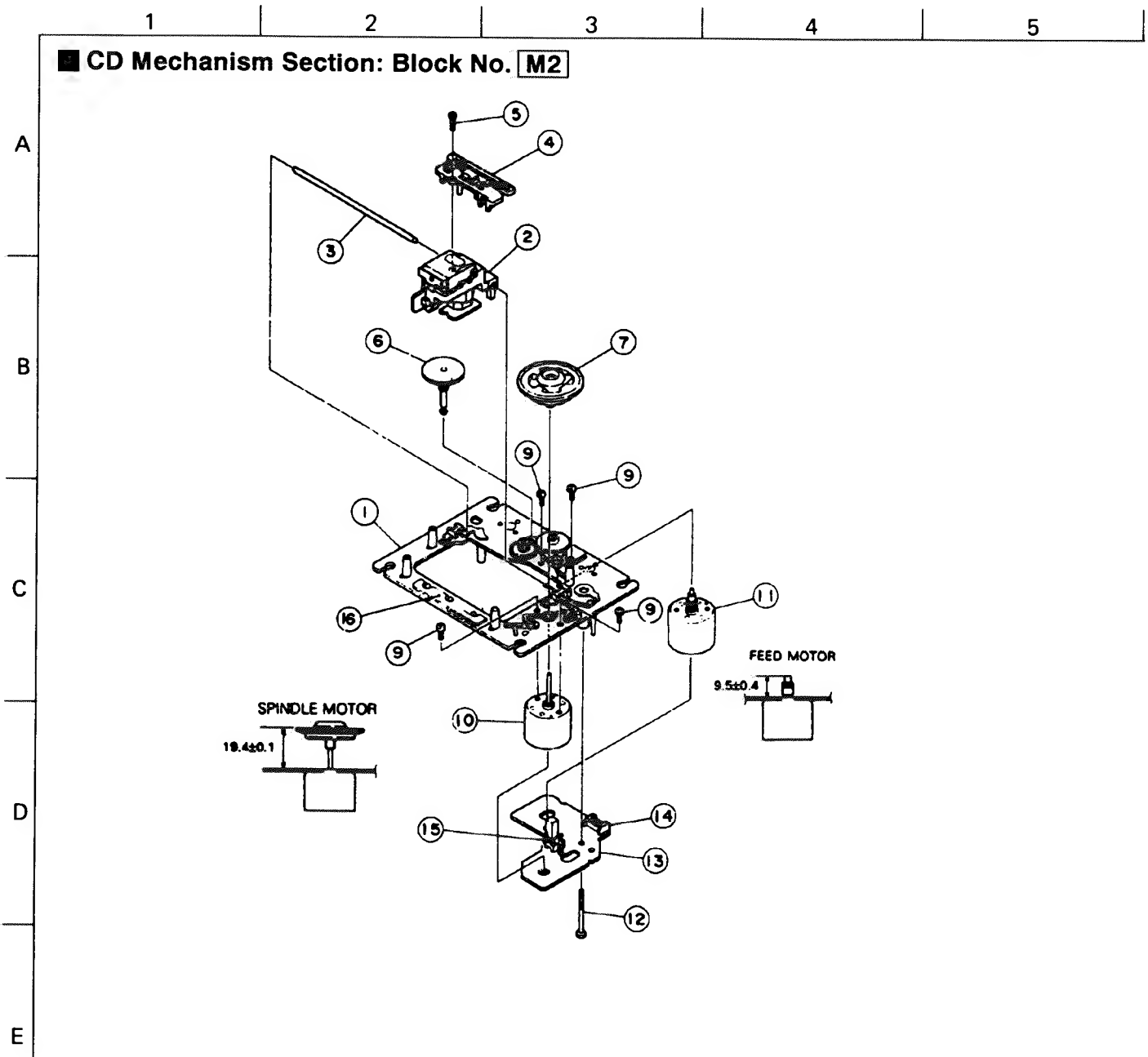
■ Enclosure Assembly Parts List

BLOCK NO. M1MM

△ REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
1	VJG1426-007	FRONT PANEL		1		
2	VJE3006-001	FITTING (L)		1		
3	VJE3007-001	FITTING (R)		1		
4	VJD5492-003	PLATE		1		
5	E408131-001	REMOTE LENS		1		
6	E406971-221	JVC MARK		1		
7	VJK3699-001	FRONT LENS		1		
8	VKW3001-321	COMP. SPRING		1		
9	VJD5491-001	VOL ESCUTCHEON		1		
10	VJK4493-001SC	LENS(STANDBY)		1		
11	SBSF3012Z	SCREW	PWB + FRONT	1		
12	VYH3944-002	LCD HOLDER		1		
13	VXL4448-001	VOLUME KNOB		1		
14	VJK4490-001SC	LED LENS		1		
15	VXP3807-002SC	BUTTON		1		
16	VJD2470-003	TOP PANEL		1		
17	VKL1444-001	BOTTOM CHASSIS		1		
18	SBST4006Z	SCREW	FOR TRANS	4		
19	SBST3004Z	SCREW	FOR BOTTOM SHAS	2		
20	VYH3939-001SC	AC HOLDER		1		
21	SBST3008Z	SCREW	AC PWB+BARRIER	2		
22	SBSF3012Z	SCREW	FOR FRONT PANEL	2		
23	VJD5410-005	PICK COVER		1		
24	SDSF2006M	SCREW		4		
25	E75609-001	INSULATOR		2		
26	E75609-002	INSULATOR		2		
27	VYH8089-001	CD MECHA HOLDER		1		
28	VYH8089-002	CD MECHA HOLDER		1		
29	SBSF3012Z	SCREW	CD MECHA HOLDER	4		
30	VMA4692-002	SHIELD		1		
31	VJD1210-002	CD CASE		1		
32	E406709-001	LASER CAUTION		1		
33	VYH8090-001SC	GEAR 1		1		
34	VYH8091-002SC	GEAR 2		1		
35	VYH7699-001	PULLEY		1		
36	MXN-13FB12F	DC MOTOR ASS'Y		1		
37	SPSP3004Z	SCREW		2		
38	VKB3000-170	BELT		1		
39	VJE3014-001SC	CD DOOR		1		
40	VJE3011-001	CD DOOR LENS		1		
41	VJK3701-001SC	ILLUMI LENS		1		
42	VJD5489-002	ORNAMENT		1		
43	SDSF2006M	SCREW	FOR ILLUMI LENS	3		
44	VJD5490-001SC	STOPPER		1		
45	VKZ4765-001	S.BOLT(DIN)		2		
46	VYH3726-001SS	CLAMPER		1		
47	VYH7313-003	MAGNET		1		
48	VYH7677-201	YOKE		1		
49	SDSF2606Z	SCREW	FOR CLAMPER	1		
50	SBSF3012Z	SCREW	CD CASE + CD PW	4		
51	VMA4701-001	BARRIER	AC PWB	1		
52	SBSF3012Z	SCREW	FOR TU PWB	1		
53	VYSS1R1-108	SPACER	FOR DOOR LENS	2		
54	VYH8093-001SC	IC HOLDER		1		
55	SBSF3010Z	SCREW	HOR IC HOLDER	3		

BLOCK NO. **M1MM**

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
56	VMH3017-001	HEAT SINK		1		
57	SBSF3012Z	SCREW	H.SINK+IC HOL,C	3		
58	VYH8107-001	BRACKET	FOR H.SINK	1		
59	SBST3008Z	SCREW	H.SINK+BRACKET	1		
60	VYSH104-047	SPACER	FOR TU PWB	1		
61	VJD2471-001	SIDE PANEL (L)		1		
62	SBSF3012Z	SCREW	SIDE PANEL(L)	1		
63	VJD2472-001	SIDE PANEL (R)		1		
64	SBSF3012Z	SCREW	SIDE PANEL(R)	1		
65	VJG1430-005	REAR COVER		1		
66	SBSF3012Z	SCREW	REAR COVER	6		
67	SSST3010Z	SCREW	BOTTOM	4		
68	VYN9292-C102	NAME PLATE		1	B	
	VNY9292-C105	NAME PLATE		1	E,EN	
	VNY9292-C108	NAME PLATE		1	G	
69	E70891-001	CLASS 1 LABEL		1		
70	VWE240-12NTSA	WIRE	FOR BOTTOM SHAS	1		
71	VWE240-10NTSA	WIRE	FOR BOTTOM SHAS	1		
74	SBSF3012Z	SCREW	H.SINK + WIRE	1		
75	VMA4706-002	SHIELD	FOR LCD PWB	1		
76	VJF4055-001	FOOT		4		
77	VYH8094-002SC	HEAT SINK		1		
78	EMG7331-003Z	FUSE CLIP	FOR F901,F902	4		
79	SBSF3012Z	SCREW	FOR VOL ESCUTC.	2		
80	SBSF3010Z	SCREW	FOR LCD PWB	1		
81	VYSR102-062	SPACER	FOR LCD PWB	1		
82	VYSR102-063	SPACER	FOR LCD SHIELD	1		
83	VYSR102-066	SPACER	FOR LCD PWB	2		
84	PU59915-105	SPACER	FOR EL	1		
85	VYSS1R1-109	SPACER	FOR EL	1		
86	VYSS1R1-110	SPACER	FOR EL	1		
87	VYSS1R5-080	SPACER	FOR LCD	1		
92	VYST1R1-003	SPACER	FOR ILLUMI LENS	1		
93	VMA4702-002	SHIELD	MAIN PWB	1		
94	PU59915-105	SPACER	MAIN PWB	2		
88	VYSA1R4-050	SPACER	FOR SHIELD	1		
89	VYSA1R6-021	SPACER	FOR SHIELD	2		
98	SBSF3010Z	SCREW	FOR HEAT SINK	1		
F 901	QMF51E2-R40SBS	FUSE	PRI	1		
F 902	QMF51E2-6R3J1	FUSE	SEC	1		
T 901	VTP66J2-12K	POWER TRANS				


CD Mechanism Parts List

 BLOCK NO. **M2MM**

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
1	EPB-002A	BASE ASS'Y		1		
2	OPTIMA-6S	PIC-UP		1		
3	E406777-001	GUIDE SHAFT		1		
4	E307746-001	CD RACK		1		
5	SDSF2006Z	SCREW	CD LACK ASS'Y	1		
6	EPB-003A	MECHA GIAR		1		
7	E75807-301	CD T.TABLE ASSY		1		
9	SDSP2003N	SCREW	FOR MOTOR	4		
10	E406783-001	SP MOTOR	SPINDL MOTOR	1		
11	E406784-001SA	DC MOTOR ASS'Y	FEED MOTOR	1		
12	E75832-001	S.SCREW	M.REAF SWITCH	1		
13	EMW10190-001	BOARD	LEAF SWITCH	1		
14	EMV5109-006B	6P PLUG ASSY		1		
15	ES81100-005	LEAF. SWITCH		1		
16	E407212-001	DAMPER		1		

14. Electrical Parts

Main Amplifier Board

BLOCK NO. 01				
REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 901	QFLC1HJ-1042M	M.CAPACITOR	.10MF 5% 50V	
C 902	QFLC1HJ-1042M	M.CAPACITOR	.10MF 5% 50V	
C 903	QFLC1HJ-1042M	M.CAPACITOR	.10MF 5% 50V	
C 904	QFLC1HJ-1042M	M.CAPACITOR	.10MF 5% 50V	
CN300	EMV7163-004	CONNECTOR		
CN301	VMC0075-002	CONNECTOR	CD DOOR	
CN302	VMC0340-S16	CONNECTOR	MICOM	
CN303	VMC0314-P14	CONNECTOR	EL7TU/CONN	
CN351	VMZ0015-002	POST PIN	SHASSIS EARTH	
CN352	VMZ0015-002	POST PIN	SHASSIS EARTH	
CN371	VMZ0015-011	STYLE PIN	WR352 WIRE CLAM	
CN373	VMZ0015-011	STYLE PIN	CN351 S WIRE CL	
CN375	VMZ0015-011	STYLE PIN	CN352 WIRE CLAM	
CN501	VMC0314-S14	CONNECTOR		
CN502	VMC0314-S14	CONNECTOR		
CN503	VMC0075-003	CONNECTOR		
CN901	VMZ0049-B02	CONNECTOR	PRI	
CN902	VMZ0049-A02	CONNECTOR	SEC	
CN903	EMV5163-004R	CONNECTOR	MAIN	
C1000	QCB11CM-332Y	C.CAPACITOR	3300PF 20% 16V	
C1001	QCB11HK-331Y	C.CAPACITOR	330PF 10% 50V	
C1002	QC11EM-104V	C.CAPACITOR	.10MF 20% 25V	
C1003	QC11EM-104V	C.CAPACITOR	.10MF 20% 25V	
C1006	QTE1V06-106Z	E.CAPACITOR		
C1007	QCB11HK-221Y	C.CAPACITOR	220PF 10% 50V	
C1021	QFN81HJ-683	M.CAPACITOR	.068MF 5% 50V	
C1022	QFN81HJ-683	M.CAPACITOR	.068MF 5% 50V	
C1024	QTE1C06-476Z	E.CAPACITOR		
C1025	QTE1V06-106Z	E.CAPACITOR		
C1026	QFV41HJ-474	FILM CAPACITOR	.47MF 5% 50V	
C1051	QCS11HJ-101	C.CAPACITOR	100PF 5% 50V	
C1082	QFLC1HJ-563	M.CAPACITOR	.056MF 5% 50V	
C1083	QFLC1HJ-563	M.CAPACITOR	.056MF 5% 50V	
C1084	QFLC1HJ-472ZM	M.CAPACITOR	4700PF 5% 50V	
C1087	EFT0101-392S	P.P.CAPACITOR		
C1088	QTE1V06-106Z	E.CAPACITOR		
C1089	QTE1V06-106Z	E.CAPACITOR	VOL IC GAIN +40	
C2000	QCB11CM-332Y	C.CAPACITOR	3300PF 20% 16V	
C2001	QCB11HK-331Y	C.CAPACITOR	330PF 10% 50V	
C2002	QC11EM-104V	C.CAPACITOR	.10MF 20% 25V	
C2003	QC11EM-104V	C.CAPACITOR	.10MF 20% 25V	
C2006	QTE1V06-106Z	E.CAPACITOR		
C2007	QCB11HK-221Y	C.CAPACITOR	220PF 10% 50V	
C2021	QFN81HJ-683	M.CAPACITOR	.068MF 5% 50V	
C2022	QFN81HJ-683	M.CAPACITOR	.068MF 5% 50V	
C2024	QTE1C06-476Z	E.CAPACITOR		
C2026	QFV41HJ-474	FILM CAPACITOR	.47MF 5% 50V	
C2051	QCS11HJ-101	C.CAPACITOR	100PF 5% 50V	
C2082	QFLC1HJ-563	M.CAPACITOR	.056MF 5% 50V	
C2083	QFLC1HJ-563	M.CAPACITOR	.056MF 5% 50V	
C2084	QFLC1HJ-472ZM	M.CAPACITOR	4700PF 5% 50V	
C2087	EFT0101-392S	P.P.CAPACITOR	ONHITU	
C2088	QTE1V06-106Z	E.CAPACITOR		
C2089	QTE1V06-106Z	E.CAPACITOR	VOL IC GAIN +40	

BLOCK NO. 01				
REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C3001	QETM1EM-828	E.CAPACITOR	8200MF 20% 25V	
C3002	QFV41HJ-1042M	FILM CAPACITOR	.10MF 5% 50V	
C3003	QET41EM-107	E.CAPACITOR	100MF 20% 25V	
C3004	EETC1AM-337ZE	E.CAPACITOR		
C3005	EETC1AM-336ZN	E.CAPACITOR	33MF 20% 10V	
C3006	QETC1HM-225ZM	E.CAPACITOR	2.2MF 20% 50V	
C3021	QER41CM-476M	E.CAPACITOR	47MF 20% 16V	
C3022	QET1C06-226Z	E.CAPACITOR		
C3031	QER41HM-103VM	E.CAPACITOR	1.0MF 20% 50V	
C3032	QER41HM-103VM	E.CAPACITOR	1.0MF 20% 50V	
C3033	QFV71HJ-563ZM	FILM CAPACITOR	.056MF 5% 50V	
C3034	QFV71HJ-563ZM	FILM CAPACITOR	.056MF 5% 50V	
C3035	QET41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C3036	QET41CM-106	E.CAPACITOR	10MF 20% 16V	
C3037	QET41CM-106	E.CAPACITOR	10MF 20% 16V	
C3041	QER41CM-106	E.CAPACITOR	10MF 20% 16V	
C3051	QET41CM-107	E.CAPACITOR	100MF 20% 10V	
C3052	QET41CM-226	E.CAPACITOR	22MF 20% 16V	
C3053	QET41CM-106	E.CAPACITOR	10MF 20% 16V	
C3081	QET41AM-227	E.CAPACITOR	220MF 20% 10V	
C3083	QET41HM-474	E.CAPACITOR	.47MF 20% 50V	
C3084	QET41HM-474	E.CAPACITOR	.47MF 20% 50V	
C3085	QET41HM-474	E.CAPACITOR	.47MF 20% 50V	
C3086	EETB1CM-106E	E.CAPACITOR		
C3087	QET41EM-106	E.CAPACITOR	10MF 20% 25V	
C3088	QER41CM-106	E.CAPACITOR	10MF 20% 16V	
C3089	QCB11HK-471Y	C.CAPACITOR	470PF 10% 50V	
C3090	QCB11HK-101Y	C.CAPACITOR	100PF 10% 50V	
C3091	QCB11HK-102Y	C.CAPACITOR	1000PF 10% 50V	
C3092	QCB11HK-102Y	C.CAPACITOR	FTZ	
C3093	QCB11HK-102Y	C.CAPACITOR	FTZ	
C3501	QCS11HJ-330	C.CAPACITOR	33PF 5% 50V	
C3502	QCS11HJ-201	C.CAPACITOR	200PF 5% 50V	
C3503	QCS11HJ-201	C.CAPACITOR	200PF 5% 50V	
C3504	QFLC1HJ-473ZM	M.CAPACITOR	.047MF 5% 50V	
C3505	QFLC1HJ-473ZM	M.CAPACITOR	.047MF 5% 50V	
C3507	QCB11HK-271Y	C.CAPACITOR	270PF 10% 50V	
C3508	QCS11HJ-680	C.CAPACITOR	68PF 5% 50V	
C5301	QET41HM-475	E.CAPACITOR	TU SW	
C5302	QET41AM-107	E.CAPACITOR	TU SW	
C5901	QET41CM-227	E.CAPACITOR	220MF 20% 16V	
C5902	QER61EM-685Z	E.CAPACITOR	6.8MF 20% 25V	
C5903	QFLC1HJ-333ZM	M.CAPACITOR	.033MF 5% 50V	
C5904	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
C5905	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
C5906	QCB11HK-102Y	C.CAPACITOR	1000PF 10% 50V	
C9002	QFV41HJ-1042M	FILM CAPACITOR	.10MF 5% 50V	
C9101	QET41EM-107	E.CAPACITOR	100MF 20% 25V	
C9102	QET41HM-474	E.CAPACITOR	.47MF 20% 50V	
C9103	QET41EM-106	E.CAPACITOR	10MF 20% 25V	
C9201	QET41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C9202	QET41CM-106	E.CAPACITOR	10MF 20% 16V	
C9203	QETC1CM-337ZM	E.CAPACITOR	330MF 20% 16V	
C9301	QET41CM-476	E.CAPACITOR	.47MF 20% 16V	
C9302	QFLC1HJ-1042M	M.CAPACITOR	.10MF 5% 50V	

BLOCK NO. 01

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
G5901	2SD2144S(VW)	TRANSISTOR	FOR DIMMER	
G5902	KRC102M-T	D-TRANSISTOR		
G5903	2SA952(L,K)	TRANSISTOR		
G9001	KTC3199(GL)-T	TRANSISTOR		
G9201	2SD882(P,Q)	TRANSISTOR		
G9202	KRA107M-T	TRANSISTOR		
R1001	GRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R1002	GRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R1003	GRD161J-151	CARBON RESISTOR	150 5% 1/6W	
R1004	GRD161J-471	CARBON RESISTOR	470 5% 1/6W	
R1022	GRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R1023	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R1024	GRD161J-202	CARBON RESISTOR	2.0K 5% 1/6W	
R1025	GRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R1027	GRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R1028	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R1029	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R1031	GRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R1032	GRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R1033	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R1034	GRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
R1041	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R1051	GRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R1052	GRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
R1082	GRD161J-512	CARBON RESISTOR	5.1K 5% 1/6W	
R1083	GRD161J-162	CARBON RESISTOR	1.6K 5% 1/6W	
R1085	GRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
R1086	GRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
R1087	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R1088	GRD161J-333	CARBON RESISTOR	VOL IC GAIN +4D	
R1089	GRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R2001	GRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R2002	GRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R2003	GRD161J-151	CARBON RESISTOR	150 5% 1/6W	
R2004	GRD161J-471	CARBON RESISTOR	470 5% 1/6W	
R2022	GRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R2023	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R2024	GRD161J-202	CARBON RESISTOR	2.0K 5% 1/6W	
R2025	GRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R2027	GRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R2028	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R2029	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R2031	GRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R2032	GRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R2033	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R2034	GRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
R2041	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R2051	GRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R2052	GRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
R2082	GRD161J-512	CARBON RESISTOR	5.1K 5% 1/6W	
R2083	GRD161J-162	CARBON RESISTOR	1.6K 5% 1/6W	
R2085	GRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
R2086	GRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
R2087	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R2088	GRD161J-333	CARBON RESISTOR	VOL IC GAIN +4D	

BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C9302	GET41EM-106	E CAPACITOR	10MF 20% 25V	
D3021	MTZ4.3JB	ZENER DIODE		
D3031	1SS133	SI DIODE		
D3032	1SS133	SI DIODE		
D3033	1SS133	SI DIODE		
D3034	1SS133	SI DIODE		
D3501	1SS133	SI DIODE		
D3502	1SS133	SI DIODE		
D3511	RB721Q	DIODE		
D3501	MTZ3.9JB	ZENER DIODE	TU SW	
D3502	1SS133	SI DIODE	TU SW	
D3503	1SS133	SI DIODE	TU SW	
D9001	MTZ10JAT-77	ZENER DIODE	STANDBY MOTOR	
D9002	1SR35-100A-12	SI DIODE		
D9101	MA4075(W)	ZENER DIODE		
D9201	MTZ6.8JB	ZENER DIODE		
D9202	MTZ5.1JB	ZENER DIODE		
D9301	1SS133	SI DIODE		
D9302	MTZ8.2JB	ZENER DIODE		
D9303	1SS133	SI DIODE		
A	IC 31 LA4705NA	IC	POWER AMP	
A	IC 32 NJM4580L	IC	AHB AMP	
A	IC 35 NJM4580L	IC	E VOL	
A	IC 38 BH3852S	IC	REG	
A	IC 91 D5S8A20-4101	SI DIODE		
A	IC901 BA3960	IC		
A	IC931 KIA78S06P-T	IC		
A	J 901 QNC0001-001	AC SOCKET 8TYPE		
A	J3002 VMJ3020-101	1PIN PINJ BLACK	SUB WOOFER	
J3003	FMJ4001-001	SPK TERMINAL	SPEAKER	
J3004	QMS3L60-E40G	3.5 JACK		
L 901	VQZ0113-001	INDUCTOR		
L1001	VQP0018-470	INDUCTOR		
L1002	VQZ0048-007	INDUCTOR		
L1003	VQZ0104-003	INDUCTOR		
L2001	VQP0018-470	INDUCTOR		
L2002	VQZ0048-003	INDUCTOR		
L2003	VQZ0104-003	INDUCTOR		
L3001	VQP0018-470	INDUCTOR		
L5901	VQH1009-042	OSC COIL(BIAS)		
L5902	VQP0033-100Z	INDUCTOR		
L9001	VQP0033-100Z	INDUCTOR	EL&MICON NOISE	
Q1031	KTC3199(GL)-T	TRANSISTOR		
Q1041	2SD2144S(VW)	TRANSISTOR		
Q1051	2SK301(P,Q)	TRANSISTOR		
Q1051	2SK301(P,Q)	TRANSISTOR		
Q2031	KTC3199(GL)-T	TRANSISTOR		
Q2041	2SD2144S(VW)	TRANSISTOR		
Q2051	2SK301(P,Q)	TRANSISTOR		
Q3041	KRA101M-T	TRANSISTOR		
Q3081	2SD2144S(VW)	TRANSISTOR	BASS MUTE	
Q3501	KTC3199(GL)-T	TRANSISTOR		
Q3502	KTC3199(GL)-T	TRANSISTOR		
Q3511	DTC144WSTP	TRANSISTOR		
Q3501	KTA1267(YG)-T	TRANSISTOR	TU SW	
Q3502	KTC3199(GL)-T	TRANSISTOR	TU SW	

BLOCK NO. 01					
REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	
R2089	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W		
R3001	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R3021	QRD161J-101	CARBON RESISTOR	100 5% 1/6W		
R3022	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W		
R3031	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W		
R3032	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W		
R3033	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W		
R3034	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W		
R3035	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W		
R3036	QRD161J-513	CARBON RESISTOR	51K 5% 1/6W		
R3051	QRD161J-101	CARBON RESISTOR	100 5% 1/6W		
R3052	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R3053	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R3054	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W		
R3055	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W		
R3056	QRD161J-331	CARBON RESISTOR	330 5% 1/6W		
R3081	QRD161J-101	CARBON RESISTOR	100 5% 1/6W		
R3082	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W		
R3083	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W		
R3084	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W		
R3085	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W		
R3086	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R3501	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W		
R3502	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W		
R3503	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W		
R3504	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
R3505	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W		
R3507	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W		
R3508	QRD161J-334	CARBON RESISTOR	330K 5% 1/6W		
R3509	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W		
R3510	QRD161J-474	CARBON RESISTOR	470K 5% 1/6W		
R3511	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W		
R3512	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W		
R5301	QRD161J-390	CARBON RESISTOR	TU SW		
R5302	QRD161J-102	CARBON RESISTOR	TU SW		
R5303	QRD161J-563	CARBON RESISTOR	TU SW		
R5304	QRD161J-472	CARBON RESISTOR	TU SW		
R5901	QRD161J-270	CARBON RESISTOR	27 5% 1/6W		
R5902	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W		
R5903	QRD161J-221	CARBON RESISTOR	220 5% 1/6W		
R5904	QR70077-330	F. RESISTOR	33 1/0W		
R5905	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W		
R9001	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W		
R9002	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W		
R9003	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R9004	QRD161J-391	CARBON RESISTOR	390 5% 1/6W		
R9102	QRD161J-221	CARBON RESISTOR	220 5% 1/6W		
R9103	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W		
R9104	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R9105	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R9201	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W		
R9202	QRD161J-101	CARBON RESISTOR	100 5% 1/6W		
R9203	QRD161J-220	CARBON RESISTOR	22 5% 1/6W		
R9204	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R9205	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		

BLOCK NO. 01					
REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	
A R9301	QR70077-4R7X	FUSE RESISTOR	4.7 1/0W		

Tuner & System CPU Board

BLOCK NO. 02

A REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
B 109	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B 110	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B 111	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B 112	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B 113	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B 114	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B 115	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B 116	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B 117	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B 118	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B 119	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B 120	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
BL701	ESP10001	LCD PANEL YELLOW	LCD BACK LIGHT	
B6001	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B6004	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B6005	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B6006	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B6007	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B6010	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B6012	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B6013	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B6053	NRS181J-ORONY	MG RESISTOR	5% 1/10W	
B6054	NRS181J-ORONY	MG RESISTOR	5% 1/10W	
B6056	NRS181J-ORONY	MG RESISTOR	5% 1/10W	
B6057	NRS181J-ORONY	MG RESISTOR	5% 1/10W	
B6058	NRS181J-ORONY	MG RESISTOR	5% 1/10W	
B6059	NRS181J-ORONY	MG RESISTOR	5% 1/10W	
B6060	NRS181J-ORONY	MG RESISTOR	5% 1/10W	
B6061	NRS181J-ORONY	MG RESISTOR	5% 1/10W	
B6062	NRS181J-ORONY	MG RESISTOR	5% 1/10W	
B7001	NRS181J-ORONY	MG RESISTOR	5% 1/10W	
B7002	NRS181J-ORONY	MG RESISTOR	5% 1/10W	
B7003	NRS181J-ORONY	MG RESISTOR	5% 1/10W	
B7022	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B7023	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B7024	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B7025	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B7026	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B7027	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B7028	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B7029	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B7030	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B7032	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B7033	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B7034	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B7035	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B7036	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B7037	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B7042	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B7046	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B7047	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B7048	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B7049	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B7050	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B7051	NRS181J-ORONY	MG RESISTOR	5% 1/8W	

BLOCK NO. 02

A REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
B7052	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B7054	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B7055	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B7064	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B7065	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B7066	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B7067	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B8052	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B8053	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B8054	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
B8055	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
C 1	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
C 2	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 3	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
C 12	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 5	QEX41CM-106	E.CAPACITOR	10MF 20% 16V	
C 8	NCB21HK-150AY	C.CAPACITOR	15PF 5% 50V	
C 9	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
C 11	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 12	NCB21HK-150AY	C CAPACITOR	15PF +50:-10% 1	
C 13	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
C 14	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 16	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
C 17	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 19	NCB21HK-471AY	C CAPACITOR	470PF 10% 50V	
C 21	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
C 30	QEX41CM-476	E.CAPACITOR	47MF 20% 16V	
C 31	NCB21HK-390AY	C CAPACITOR	39PF 5% 50V	
C 32	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
C 33	QEX61AM-107Z	E.CAPACITOR	100MF 20% 10V	
C 34	NCB21HK-150AY	C.CAPACITOR	15PF 5% 50V	
C 35	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
C 36	QEX41CM-106	E.CAPACITOR	10MF 20% 16V	
C 37	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
C 39	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
C 40	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 41	QEX41HM-104	E.CAPACITOR	.10MF 20% 50V	
C 42	QEX41HM-474	E.CAPACITOR	.47MF 20% 50V	
C 43	QEX61HM-335ZN	E.CAPACITOR	3.3MF 20% 50V	
C 44	NCB21HK-221AY	C CAPACITOR	220PF 5% 50V	
C 45	QEX41CM-106	E.CAPACITOR	10MF 20% 16V	
C 46	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
C 47	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 49	NCB21HK-183AY	C CAPACITOR	.018MF 10% 50V	
C 50	NCB21HK-183AY	C CAPACITOR	.018MF 10% 50V	
C 51	QEX41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C 52	QEX41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C 53	NCB21HK-681AY	C CAPACITOR	680PF 10% 50V	
C 55	NCB21HK-120AY	C CAPACITOR	12PF 5% 50V	
C 60	QEX61AM-107Z	E.CAPACITOR	100MF 20% 10V	
C 61	NCB21HK-120AY	C CAPACITOR	12PF 5% 50V	
C 62	NCB21HK-120AY	C CAPACITOR	12PF 5% 50V	
C 63	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
C 65	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
C 66	NCB21HK-151AY	C CAPACITOR	150PF 5% 50V	

BLOCK NO. 02

BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C6341	QER41HM-105VM	E. CAPACITOR	1.0MF 20% 50V	
C6343	QCB81HK-151Y	C. CAPACITOR	150PF 10% 50V	
C6351	QER41CM-476M	E. CAPACITOR	47MF 20% 16V	
C6352	QTE1V06-106Z	E. CAPACITOR		
C6353	NCB21EK-823AY	C. CAPACITOR	.082MF 10% 25V	
C6370	NCB21HK-223AY	C. CAPACITOR	.022MF 10% 50V	
C6371	NCB21HK-223AY	C. CAPACITOR	.022MF 10% 50V	
C6372	QCB81HK-151Y	C. CAPACITOR	150PF 10% 50V	
C6373	NCB21HK-182AY	C. CAPACITOR	1800PF 10% 50V	
C6374	NCB21HJ-151AY	C. CAPACITOR	150PF 5% 50V	
C6375	NCB21HK-103AY	C. CAPACITOR	.010MF 10% 50V	
C6376	NCB21HK-102AY	C. CAPACITOR	1000PF 10% 50V	
C7001	NCB21HJ-180AY	C. CAPACITOR	18PF 5% 50V	
C7002	NCB21HJ-180AY	C. CAPACITOR	18PF 5% 50V	
C7004	NCB21HJ-360AY	C. CAPACITOR	36PF 5% 50V	
C7005	NCB21HJ-390AY	C. CAPACITOR	39PF 5% 50V	
C7006	NCB21HJ-200AY	C. CAPACITOR	20PF 5% 50V	
C7007	NCB21HJ-220AY	C. CAPACITOR	22PF 5% 50V	
C7008	NCB21HK-102AY	C. CAPACITOR	1000PF 10% 50V	
C7009	NCB21HK-102AY	C. CAPACITOR	1000PF 10% 50V	
C7011	QER41AM-107	E. CAPACITOR	100MF 20% 10V	
C7012	NCB21HK-103AY	C. CAPACITOR	.010MF 10% 50V	
C7013	QFLC1HJ-104ZM	M. CAPACITOR	.10MF 5% 50V	
C7014	QER41CM-106	E. CAPACITOR	10MF 20% 16V	
C7021	QER41CM-476M	E. CAPACITOR	47MF 20% 16V	
C7022	NCB21HK-102AY	C. CAPACITOR	1000PF 10% 50V	
C7026	NCB21HK-103AY	C. CAPACITOR	.010MF 10% 50V	
C7027	NCB21HK-103AY	C. CAPACITOR	.010MF 10% 50V	
C7031	EECS0HD473H	E.D.-L. CAPA		
C7051	QER41CM-106	E. CAPACITOR	10MF 20% 16V	
C7052	QER41HM-225	E. CAPACITOR	2.2MF 20% 50V	
C7081	NCB21HK-102AY	C. CAPACITOR	MICOM NOISE	
C7091	QER41AM-107	E. CAPACITOR	100MF 20% 10V	
C7701	NCB21HJ-151AY	C. CAPACITOR	150PF 5% 50V	
C7702	NCB21HJ-151AY	C. CAPACITOR	150PF 5% 50V	
C7704	NCB21HJ-331AY	C. CAPACITOR	330PF 5% 50V	
C7719	NCB21HJ-271AY	C. CAPACITOR	270PF 5% 50V	
C7721	NCB21HJ-271AY	C. CAPACITOR	270PF 5% 50V	
C7722	NCB21HJ-271AY	C. CAPACITOR	270PF 5% 50V	
C7723	NCB21HJ-271AY	C. CAPACITOR	270PF 5% 50V	
C7731	NCB21HK-102AY	C. CAPACITOR	1000PF 10% 50V	
C7757	QER41HM-225	E. CAPACITOR	2.2MF 20% 50V	
C7758	QER61HM-335ZM	E. CAPACITOR	3.3MF 20% 50V	
C7759	QER41HM-225	E. CAPACITOR	2.2MF 20% 50V	
C7771	QER41HM-105VM	E. CAPACITOR	1.0MF 20% 50V	
C7773	QER41HM-105VM	E. CAPACITOR	1.0MF 20% 50V	
C7783	NCB21HJ-151AY	C. CAPACITOR	150PF 5% 50V	
C7787	NCB21HK-103AY	C. CAPACITOR	.010MF 10% 50V	
D 1	1SS133	SI DIODE		
D 2	1SS133	SI DIODE		
D 3	1SS133	SI DIODE		
D 4	1SS133	SI DIODE		
D 21	RB721Q	DIODE		
D1701	VGL1208-001S	L.C.D.		
D6341	MT6-2JB	ZENER DIODE		

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 67	NCB21HJ-151AY	C. CAPACITOR	150PF 5% 50V	
C 68	NCB21HJ-101AY	C. CAPACITOR	100PF 5% 50V	
C 69	QER41HM-225	E. CAPACITOR	2.2MF 20% 50V	
C 70	NCB21HK-392AY	C. CAPACITOR	3900PF 10% 50V	
C 71	QER61HM-335ZM	E. CAPACITOR	3.3MF 20% 50V	
C 72	NCB21HK-102AY	C. CAPACITOR	1000PF 10% 50V	
C 80	NCB21HJ-820AY	C. CAPACITOR	82PF 5% 50V	
C 81	NCB21HJ-470AY	C. CAPACITOR	47PF 5% 50V	
C 82	QER41CM-106	E. CAPACITOR	10MF 20% 16V	
C 83	NCB21HK-473AY	C. CAPACITOR	.047MF 10% 25V	
C 84	QER41HM-225	E. CAPACITOR	2.2MF 20% 50V	
C 85	NCB21HK-331AY	C. CAPACITOR	330PF 10% 50V	
C 86	NCB21HK-561	C. CAPACITOR	5600PF 10% 50V	
C 89	NCB21HK-102AY	C. CAPACITOR	1000PF 10% 50V	
C 90	NCB21HK-103AY	C. CAPACITOR	.010MF 10% 50V	
C 91	NCB21HK-103AY	C. CAPACITOR	.010MF 10% 50V	
CF 1	VCFM38-104	CERAMIC FILTER	FM IF	
CF 2	VCF23B-102	C. FILTER	FM IF	
CF 3	VCF122-115Z	CERAMIC FILTER		
CF 4	CMU2-456A05	CERA LOCK		
CN631	VMC0163-R07	CONNECTOR		
CN632	VMC0314-P14	CONNECTOR		
CN633	VMC0340-S18	CONNECTOR		
CN634	VMC0041-005	CONNECTOR		
CN635	VMC0040-003	CONNECTOR		
CN711	VMC0340-P16	CONNECTOR	TO MAIN	
CN761	VMC0340-P18	CONNECTOR	TO FUNC. TUNER	
CN766	VMC0163-R11	CONNECTOR	TO CD	
CN781	EMV159-006	CONNECTOR BT08	TO SW	
CN801	EMV159-006R	B TO B CONNECTOR	TO MICOM	
C4001	QET41CM-106	E. CAPACITOR	10MF 20% 16V	
C4002	QETCOJM-227ZN	E. CAPACITOR	220MF 20% 6.3V	
C4003	QET41AM-107	E. CAPACITOR	100MF 20% 10V	
C6102	NCB21HJ-151AY	C. CAPACITOR	150PF 5% 50V	
C6121	NCB21HK-122AY	C. CAPACITOR	1200PF 10% 50V	
C6122	NCB21HK-332AY	C. CAPACITOR	3300PF 10% 50V	
C6124	NCB21HK-102AY	C. CAPACITOR	1000PF 10% 50V	
C6150	NCB21HJ-300AY	C. CAPACITOR	300PF 5% 50V	
C6151	NCB21HJ-100AY	C. CAPACITOR	10PF 5% 50V	
C6152	QER41EM-475VM	E. CAPACITOR	4.7MF 20% 25V	
C6155	QER41EM-475VM	E. CAPACITOR	4.7MF 20% 25V	
C6156	QTE1C03-106Z	E. CAPACITOR		
C6202	NCB21HJ-151AY	C. CAPACITOR	150PF 5% 50V	
C6221	NCB21HK-122AY	C. CAPACITOR	1200PF 10% 50V	
C6222	NCB21HK-332AY	C. CAPACITOR	3300PF 10% 50V	
C6224	NCB21HK-102AY	C. CAPACITOR	1000PF 10% 50V	
C6250	NCB21HJ-300AY	C. CAPACITOR	300PF 5% 50V	
C6251	NCB21HJ-100AY	E. CAPACITOR	10PF 5% 50V	
C6252	QER41EM-475VM	E. CAPACITOR	4.7MF 20% 25V	
C6253	QER41EM-475VM	E. CAPACITOR	4.7MF 20% 25V	
C6256	QTE1C03-106Z	E. CAPACITOR		
C6301	QER61HM-684ZM	E. CAPACITOR	.68MF 20% 50V	
C6302	NCB21HK-103AY	C. CAPACITOR	.010MF 10% 50V	
C6321	QER41CM-106	E. CAPACITOR	10MF 20% 16V	
C6322	NCB21HK-103AY	C. CAPACITOR	.010MF 10% 50V	

BLOCK NO. 02

BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
D7001	1SS133	SI DIODE	US5V	
D7011	MT28.2JB	ZENER DIODE		
D7012	1SS133	SI DIODE		
D7031	1SS133	SI DIODE	BACK UP	
D7032	1SS133	SI DIODE	XKILL	
D7051	1SS133	SI DIODE	RESET	
D7061	MT25.1JC	ZENER DIODE	BACK UP	
D7091	SLR-342VC-T09	LED RED H8.9MM	STANDBY LED	
D7092	1SS133	SI DIODE		
D7094	1SS133	SI DIODE		
D7095	1SS133	SI DIODE		
D8101	SLR-342MC-T09	LED GRN. H8.9MM	CD DOOR	
D8102	SLR-342MC-T09	LED GRN. H8.9MM	CD DOOR	
D8103	SL2-481C09-T6	LED	CD DOOR	
IC 1	TA2057N	IC		
IC 2	LC72136	IC		
IC 4	SAAG579	IC		
IC401	TA8409S	IC		
IC666	BA15218F	IC	FUNCTION	
IC701	UPD78063GF-111	IC	SYSTEM MICON	
IC702	SBX1971-52	RM.RECIVER		
IC703	KIAT850AP-T	IC		
J 1	EMBA1YV-502K	ANT TERMINAL	AM/FM ANT	
J5701	VCV7003-001	ROTARY ENCODER		
J6001	VMJ3025-001	4PIN JACK ASSY		
J6371	GP1132T	OPTICAL JACK		
K6370	VQZ0048-007	INDUCTOR		
K7001	VQZ0107-002	INDUCTOR	VSS	
K7003	VQZ0107-002	INDUCTOR		
K8001	VQZ0107-002	INDUCTOR		
L 1	VQZ0098-102	COIL BLOCK	MW/LW RF/OSC	
L 4	VQPO018-221	INDUCTOR		
L 5	VQPO018-101	INDUCTOR		
L 10	VQZ0069-002S	TRAP COIL	114KHZ TRAP	
L 11	VQPO018-2R7	INDUCTOR		
L4001	VQPO028-221Z	INDUCTOR		
L4002	VQZ0107-002	INDUCTOR		
L6121	EQF0101-010	FILTER		
L6221	EQF0101-010	FILTER		
L6370	VQPO018-100	INDUCTOR		
L7002	VQPO033-100Z	INDUCTOR	SW5V	
L7332	VQPO018-4R7	INDUCTOR	AVREF	
L7701	VQPO018-4R7	INDUCTOR	SDATA	
L7702	VQPO018-4R7	INDUCTOR	SCK	
L7731	VQPO033-100Z	INDUCTOR	AVDD	
Q 1	2SC2668(C)	TRANSISTOR		
Q 2	DTA114YKA-X	TRANSISTOR		
Q 3	KTC3199(GL)-T	TRANSISTOR		
Q 4	KTC3199(GL)-T	TRANSISTOR		
Q 6	DTA114YKA-X	TRANSISTOR		
Q 7	2SA1037K(R)	TRANSISTOR		
Q 8	2SA1037K(R)	TRANSISTOR		
Q 14	2SA1037K(R)	TRANSISTOR		
Q4001	2SC2412KK1	TRANSISTOR		
Q4002	2SC2412KK1	TRANSISTOR		
Q4003	DTC143TS	TRANSISTOR		
Q6101	2SC2412KK1	TRANSISTOR		
Q6121	2SC2412KK1	TRANSISTOR		
Q6141	2SC2412KK1	TRANSISTOR		
Q6201	2SC2412KK1	TRANSISTOR		
Q6221	2SC2412KK1	TRANSISTOR		
Q6241	2SC2412KK1	TRANSISTOR		
Q6301	2SC2412KK1	TRANSISTOR		
Q6321	DTA114EKA-X	TRANSISTOR		
Q6341	DTA114EKA-X	TRANSISTOR		
Q7001	2SC2668(C)	TRANSISTOR	CLOCK SHIFT	
Q7002	2SC2668(C)	TRANSISTOR	CLOCK SHIFT	
Q7031	2SA1037AK(RS)-X	HIP TRANSISTOR	SW5V	
Q7051	DT-114TKT146	TRANSISTOR	RESET	
Q7061	2SC2412KK1	TRANSISTOR	BACK UP	
Q7091	2SC2412KK1	TRANSISTOR	POUT SW	
Q7784	DT-114TKA-X	TRANSISTOR	STANDBY LED CON	
R 1	NRSA02J-102NY	MG RESISTOR	TUNER DATA CONT	
R 2	NRSA02J-820NY	MG RESISTOR	1.0K 5% 1/10W	
R 3	NRSA02J-560NY	MG RESISTOR	82 5% 1/10W	
R 10	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
R 12	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 13	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R 15	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 16	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 20	NRSA02J-33NY	MG RESISTOR	330 5% 1/10W	
R 21	NRSA02J-224NY	MG RESISTOR	220K 5% 1/10W	
R 22	NRSA02J-33NY	MG RESISTOR	330 5% 1/10W	
R 23	NRSA02J-100NY	MG RESISTOR	10 5% 1/10W	
R 24	NRSA02J-27NY	MG RESISTOR	270 5% 1/10W	
R 25	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 26	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R 27	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 29	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 30	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 31	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 34	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R 35	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R 36	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 37	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 38	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
R 39	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
R 42	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 43	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 44	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 45	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 48	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 52	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 54	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 55	NRSA02J-182NY	MG RESISTOR	1.8K 5% 1/10W	
R 56	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 57	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 60	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 61	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	

BLOCK NO. 02					BLOCK NO. 02				
REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 65	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W		R6301	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 66	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W		R6341	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 69	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W		R6351	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R 74	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W		R6352	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 75	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W		R6353	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 76	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W		R6370	NRSA02J-913NY	RESISTOR	91K 5% 1/10W	
R 80	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W		R6371	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 82	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W		R6372	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 83	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W		R7005	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
R 84	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W		R7006	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
R 91	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W		R7028	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R4001	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W		R7029	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R4002	NRSA02J-682NY	MG RESISTOR	6.8K 5% 1/10W		R7031	QRD161J-331	CARBON RESISTOR	330 5% 1/6W	
R4003	QRD14CJ-3R9S	UNF. C. RESISTOR	3.9 5% 1/4W		R7032	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R4004	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W		R7033	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R4005	QRD161J-391	CARBON RESISTOR	390 5% 1/6W		R7037	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R6101	NRSA02J-224NY	MG RESISTOR	220K 5% 1/10W		R7081	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R6102	NRSA02J-623NY	MG RESISTOR	62K 5% 1/10W		R7082	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R6103	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W		R7083	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R6104	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W		R7084	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R6105	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		R7091	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R6106	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W		R7092	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	
R6121	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W		R7093	NRSA02J-133NY	MG RESISTOR	13K 5% 1/10W	
R6122	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W		R7095	NRSA02J-323NY	MG RESISTOR	32K 5% 1/10W	
R6123	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W		R7096	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R6124	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W		R7097	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R6141	NRSA02J-562NY	MG RESISTOR	5.6K 5% 1/10W		R7098	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R6142	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W		R7641	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R6143	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W		R7701	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R6144	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W		R7702	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R6145	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W		R7703	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R6151	NRSA02J-154NY	MG RESISTOR	150K 5% 1/10W		R7704	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R6152	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W		R7705	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R6156	NRSA02J-124NY	MG RESISTOR	120K 5% 1/10W		R7706	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R6157	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W		R7711	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R6201	NRSA02J-224NY	MG RESISTOR	220K 5% 1/10W		R7712	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R6202	NRSA02J-623NY	MG RESISTOR	62K 5% 1/10W		R7713	NRSA02J-223NY	MG RESISTOR	2.2K 5% 1/10W	
R6203	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W		R7714	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R6204	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W		R7715	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R6205	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		R7716	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R6206	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W		R7717	NRSA02J-473NY	MG RESISTOR	4.7K 5% 1/10W	
R6221	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W		R7718	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R6222	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W		R7719	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R6223	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W		R7721	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R6224	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W		R7722	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R6241	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W		R7723	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R6242	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W		R7724	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R6243	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W		R7725	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R6244	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W		R7726	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R6245	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W		R7727	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R6251	NRSA02J-154NY	MG RESISTOR	150K 5% 1/10W		R7731	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R6252	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W						
R6256	NRSA02J-124NY	MG RESISTOR	120K 5% 1/10W						
R6257	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W						

BLOCK NO. 02

BLOCK NO. 02

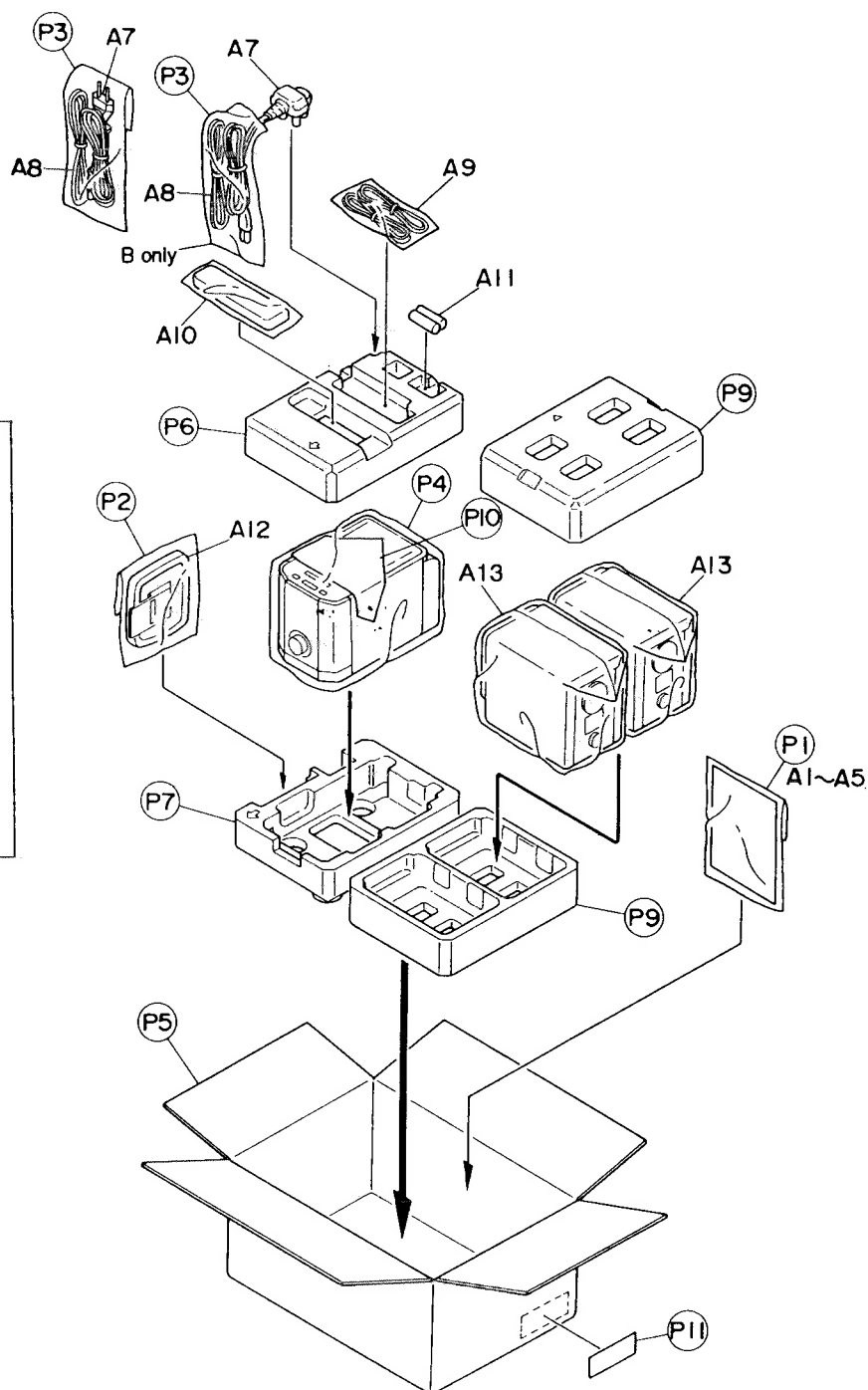
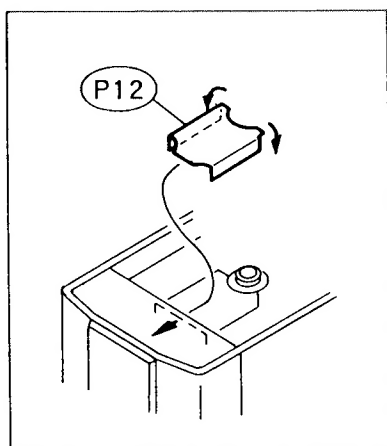
A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	S6371	VSH1153-002	SWITCH		
	S8001	QS04H11-V12Z	TACT SWITCH		
	S8002	QS04H11-V12Z	TACT SWITCH		
	S8003	QS04H11-V12Z	TACT SWITCH		
	S8004	QS04H11-V12Z	TACT SWITCH		
	S8005	QS04H11-V12Z	TACT SWITCH		
	S8006	QS04H11-V12Z	TACT SWITCH		
	S8007	QS04H11-V12Z	TACT SWITCH		
	S8008	QS04H11-V12Z	TACT SWITCH		
	S8009	QS04H11-V12Z	TACT SWITCH		
	S8010	QS04H11-V12Z	TACT SWITCH		
	S8011	QS04H11-V12Z	TACT SWITCH		
	S8012	QS04H11-V12Z	TACT SWITCH		
	S8013	QS04H11-V12Z	TACT SWITCH		
	T 1	VQ17A21-113	IFT		
	TU 1	VAF2S13-001	FRONT END	FM TU	
	W6000	VM20015-005	POST PIN		
	W6001	VM20015-002	POST PIN		
	X 1	VCX5044-001	CRYSTAL		
	X 2	VCX5057-001	CRYSTAL		
	X7001	VCX5000-002	CRYSTAL	CLOCK	
	X7002	M224.19	CERA LOCK	MAIN CLOCK	

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R7732	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7733	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7734	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7735	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7736	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7737	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7738	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7741	NRSA02J-154NY	MG RESISTOR	150K 5% 1/10W	
	R7742	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7745	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7746	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7747	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R7749	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7751	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7752	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7753	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7754	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7755	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7756	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7757	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R7758	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R7759	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R7761	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7762	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
	R7763	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7764	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7771	NRSA02J-683NY	MG RESISTOR	68K 5% 1/10W	
	R7772	NRSA02J-114NYM	RESISTOR	110K 5% 1/10W	
	R7773	NRSA02J-114NYM	RESISTOR	110K 5% 1/10W	
	R7774	NRSA02J-OR0NY	MG RESISTOR	5% 1/10W	
	R7775	NRSA02J-683NY	MG RESISTOR	68K 5% 1/10W	
	R7781	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7783	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7784	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7785	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7819	GRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R7821	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7822	GRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R7823	NRSA02J-102NY	MG RESISTOR	FOR B7854	
	R8001	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R8002	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R8003	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
	R8004	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
	R8005	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R8006	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W	
	R8007	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
	R8008	NRSA02J-562NY	MG RESISTOR	5.6K 5% 1/10W	
	R8009	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R8011	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R8012	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R8020	NRSA02J-222NY	MG RESISTOR	VERSION	
	R8021	NRSA02J-OR0NY	MG RESISTOR	VERSION	
	R8101	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	
	R8102	NRSA02J-591NY	MG RESISTOR	590 5% 1/10W	
	S6370	VSH1153-002	SWITCH		

CD Servo Control Board

BLOCK NO. 03						BLOCK NO. 03					
A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 604	QEX51AM-107	E CAPACITOR	100MF 20% 10V			R 606	QRD161J-913	CARBON RESISTOR	91K 5% 1/6W	
	C 605	QET41EM-106	E CAPACITOR	10MF 20% 25V			R 607	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
	C 606	QCB81HK-102Y	C CAPACITOR	1000PF 10% 50V			R 609	QRD161J-114	CARBON RESISTOR	110K 5% 1/6W	
	C 607	QCB81HK-102Y	C CAPACITOR	1000PF 10% 50V			R 610	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W	
	C 608	QET41EM-105	E CAPACITOR	1.0MF 20% 50V			R 612	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	C 609	QCB81HK-101Y	C CAPACITOR	100PF 10% 50V			R 613	QRD161J-121	CARBON RESISTOR	120 5% 1/6W	
	C 610	QFLC1HJ-2732M	M CAPACITOR	.022MF 5% 50V			R 614	QRD161J-100	CARBON RESISTOR	10 5% 1/6W	
	C 611	QCB81CM-222Y	C CAPACITOR	2200PF 20% 16V			R 615	QRD161J-120	CARBON RESISTOR	12 5% 1/6W	
	C 612	QCB81CM-103Y	C CAPACITOR	.010MF 20% 16V			R 616	QRD161J-910Y	CARBON RESISTOR	91 5% 1/6W	
	C 613	QCB81HK-331Y	C CAPACITOR	330PF 10% 50V			R 621	QRD161J-680	CARBON RESISTOR	68 5% 1/6W	
	C 614	QFLC1HJ-1042M	M CAPACITOR	.10MF 5% 50V			R 622	QRD161J-680	CARBON RESISTOR	68 5% 1/6W	
	C 615	QCB81E2-223	C CAPACITOR	.022MF +80:-20%			R 623	QRD161J-680	CARBON RESISTOR	68 5% 1/6W	
	C 616	QCB81E2-223	C CAPACITOR	.022MF +80:-20%			R 631	QRD161J-331	CARBON RESISTOR	330 5% 1/6W	
	C 617	QCB81E2-223	C CAPACITOR	.022MF +80:-20%			R 632	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	C 618	QCB81CM-222Y	C CAPACITOR	2200PF 20% 16V			R 633	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
	C 619	QCB81HK-271Y	C CAPACITOR	270PF 10% 50V			R 641	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W	
	C 620	QCS11HJ-470	C CAPACITOR	47PF 5% 50V			R 642	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	C 621	QCB81HK-821Y	C CAPACITOR	820PF 10% 50V			R 643	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
	C 622	QET41AM-476	E CAPACITOR	47MF 20% 10V			R 644	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	C 623	QFLC1HJ-1042M	M CAPACITOR	.10MF 5% 50V			R 645	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	C 628	QCC11EM-473V	C CAPA. 1.M	.047MF 20% 25V			R 646	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
	C 629	QET41AM-107	E CAPACITOR	100MF 20% 10V			R 647	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	C 631	QET41AM-477	E CAPACITOR	470MF 20% 10V			R 651	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	C 632	QEX51AM-107	E CAPACITOR	100MF 20% 10V			R 652	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	C 651	QCS11HJ-120	C CAPACITOR	12PF 5% 50V			R 653	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	C 652	QCS11HJ-150	C CAPACITOR	15PF 5% 50V			R 654	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	C 653	QCB81E2-223	C CAPACITOR	.022MF +80:-20%			R 655	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	C 655	QCC11EM-473V	C CAPA. 1.M	.047MF 20% 25V			R 659	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	C 661	QCB81HK-471Y	C CAPACITOR	470PF 10% 50V			R 661	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	C 662	QCB81E2-223	C CAPACITOR	.022MF +80:-20%			R 663	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
	C 663	QFLC1HJ-2232M	M CAPACITOR	.022MF 5% 50V			R 664	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
	C 664	QCB81E2-223	C CAPACITOR	.022MF +80:-20%			R 666	QRD161J-220	CARBON RESISTOR	22 5% 1/6W	
	C 665	QFV71HJ-3342M	FILM CAPACITOR	.33MF 5% 50V			R 671	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	C 671	QCB81CM-152Y	C CAPACITOR	1500PF 20% 16V			R 672	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	C 672	QCB81CM-152Y	C CAPACITOR	1500PF 20% 16V			X 651	VXC5016-934V	CRYSTAL	16.9344MHZ	
	C 673	QTE1C05-227	E CAPACITOR								
	C 674	QCB81E2-223	C CAPACITOR	.022MF +80:-20%							
	C 675	QCB81HK-102Y	C CAPACITOR	AG-DG							
	C 676	QCB81HK-102Y	C CAPACITOR	AG-DG							
	C 691	QCB81HK-151Y	C CAPACITOR	DENGEN NOISE							
	C 692	QCB81HK-151Y	C CAPACITOR	DENGEN NOISE							
	C 693	QCB81HK-151Y	C CAPACITOR	DENGEN NOISE							
	CN601	EMV7144-015R	15PIN CONNECTOR	TO RF							
	CN603	VMC0163-R07	CONNECTOR	TO AUDIO							
	CN604	VMC0163-R11	CONNECTOR	TO MICRON							
	CN605	VMC0041-003	CONNECTOR	TO DIGITAL OUT							
	D 661	1SS133	SI DIODE								
	IC601	AN8806SB	IC	RF AMP							
	IC602	BA6897FP	IC	DRIVER							
	IC603	MN35510	IC	1CHIP PROCESSER							
	Q 601	2SA952(L,K)	TRANSISTOR								
	Q 631	2SA952(L,K)	TRANSISTOR								
	R 601	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W							
	R 603	QRD161J-125	CARBON RESISTOR	1.2M 5% 1/6W							
	R 605	QRD167J-134	CARBON RESISTOR	130K 5% 1/6W							

15. Packing



Packing Parts List

BLOCK NO. M3MM

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
P	1	VPE3005-007	POLY BAG	INSTRUCTIONS	1		
P	2	VPE3005-042	POLY BAG	AM LOOP ANT	1		
P	3	QPGA012-02505	POLY BAG	FOR POWER CORD	1		
P	4	VPE3020-018	POLY BAG	FOR SET	1		
P	5	VPC9292-C003	CARTON		1		
P	6	VPH1695-001	CUSHION	SET TOP SIDE	1		
P	7	VPH1695-002	CUSHION	SET BOTTOM SIDE	1		
P	9	VPH2481-001	SPK CUSHION	SERVICE PARTS	2		
P	10	VPK3001-012	SHEET	FOR SET	1		
P	11	VND3111-165	CARTON LABEL	4975769133626	1		
P	12	VPK4236-010	SPACER	FOR SET	1		

■ Accessories

BLOCK NO. **M4MM** ☐ ☐ ☐

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A 1	VNN9292-261C	INSTRUCTIONS		1	E,EN,G	
		VNN9292-271C	INSTRUCTIONS		1	EN	
		VNN9292-251C	INSTRUCTIONS		1	E	
		VNN9292-671C	INSTRUCTIONS		1	B	
	A 2	BT-54006-1	WARRANTY CARD		1	G	
		BT-54003-1	WARRANTY CARD		1	B	
	A 3	BT-20066A	SERVICE NIT LIS		1		
	A 4	VNA1001-029	USER CARD		1		
	A 5	E43486-340B	SAFETY INST SHE		1		
	A 7	QMP5520-183BS	POWER CORD		1	B	
		QMP39F0-183	POWER CORD		1	E,EN,G	
	A 8	EWP503-001	ANT.WIRE	FM ANT.	1		
	A 9	VMP0133-001	SPK.CORD(2PCS)	SPEAKER CORD OF	1		
	A 10	VGR0055-401	REMOCON UNIT	RM-RXU2000R	1		
	A 11	R6SPTT-2STSA	BATTERY	FOR REMOCON	1		
	A 12	EQB4001-015	AM LOOP ANT	AM ANT.	1		
	A 13	UX2000RK-SPBOX	SPEAKER		2		
	SVP 1	VYTB430	SARAN NET ASSY	SERVICE PARTS	2		
	SVP 2	VGS0801-009	SPEAKER	SERVICE PARTS	2		



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